

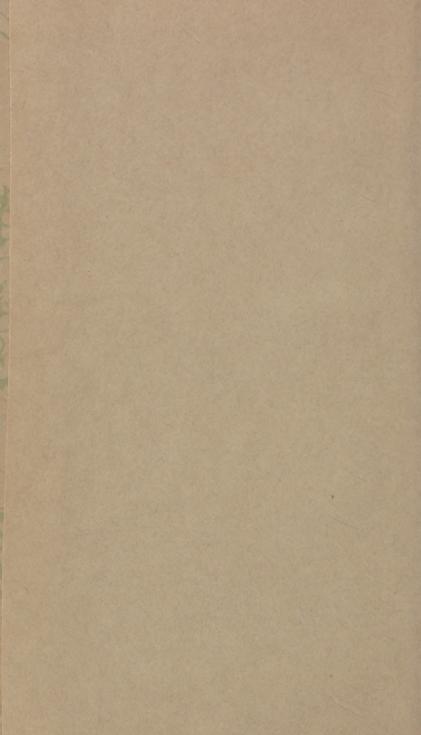
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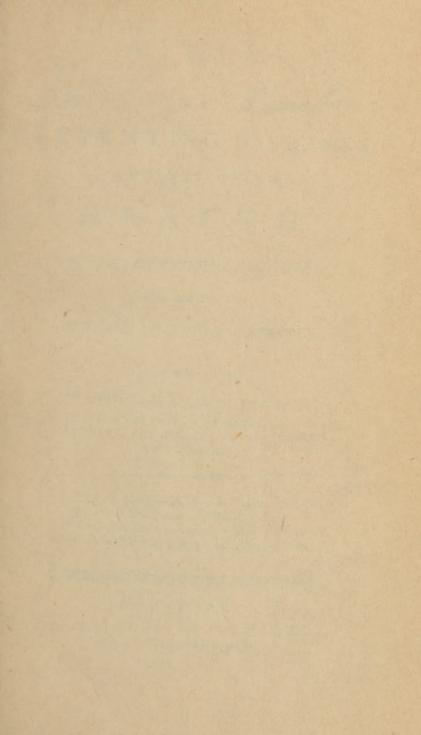


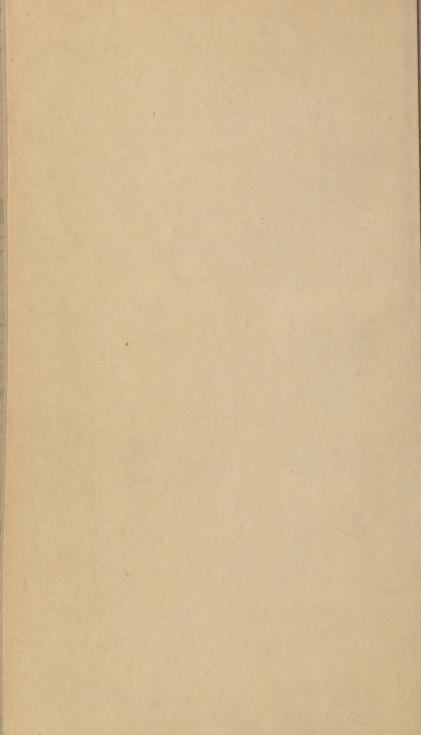
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U. S. Department of Health, Education, and Welfare
Public Health Service









ART

Robert or Dunbar

PREVENTING DISEASES,

AND RESTORING

HEALTH,

FOUNDED ON RATIONAL PRINCIPLES,

AND ADAPTED TO

PERSONS OF EVERY CAPACITY.

By GEORGE WALLIS, M. D. S. M. S.
EDITOR OF THE LAST EDITION OF MOTHERBY'S MEDICAL
DICTIONARY, AND SYDENHAM'S WORKS, WALLEY
NOTES, &c. &c.

From Fact and Reason we our Practice dray, one The firmest Basis, and the soundest Law, Whence Nature's powers in sullest Vigour rise, And dread Disease with all his Phalanx sies.

NEW-YORK:

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CESTOR CONTRACTOR

EXPLANATORY PREFACE.

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IN the perufal of feveral works on the prevention and cure of difeafe, I have feldom met with any that, according to my conceptions, have been formed with sufficient perspicuity; for though fimplicity of stile may be effentially necessary, considering the class of people to whom such labours are addressed; fill I fee no cause, why the very principles and reasoning by which they ought to be directed in their pursuit should either be totally omitted, or treated in fo flight a manner, as not to afford any material advantages-the principles I mean are, the NATURE OF CONSTITUTIONS, and THE IMMEDIATE CAUSES OF DIS-EASE; for whether we wish to prevent or cure, these two points must ever be kept in view. To prove this, let us inquire, by what are we directed in our attempts to avoid difease?

From the knowledge of the remote causes, being well acquainted with the effect which they are calculated to produce in the machine, and preventing their accession; but in all cases this cannot be done; in many, prevention of that circumstance is impossible-how then must we act? By so regulating the powers of the constitution, that it may be placed in such a state as to be rendered incapable of feeling the effect of the remote

cause.

And how can this be accomplished without being thoroughly acquainted with the nature of the constitution itself; Indeed, it feems not only necessary in this respect, but also to render the disease, when the cause has produced its consequences, as mild as possible. Various proofs of the validity of this doctrine will arise upon slight consideration. In inoculating for the small-pox, we find very often great variability in the disease; and this cannot, it is clear, be owing to the matter by which the complaint is occasioned, having any variability of action; for the same matter taken from the very fame pock will produce in different habits a disease of very different natures, with respect to mildness or malignancy—it is therefore obvious the variation must arife from fome deviations in the feparate habits, which require different

different modes of preparation; -and, probably, it is owing to want of accuracy in this point that some children after being in-

oculated die, and several fall into other maladies.

With respect to the other principle to which we must advert with regard to the cure; we should confine ourselves to the IM-MEDIATE CAUSE or CAUSES, which, acting in the habit, sproduce those symptoms, an enumeration of which is called disease; for all other causes in this point of view are of no avail. Matters it by what means the difeafe has been occasioned, fince the action of that cause is past? the effect at this time acting as a cause, claims only attention, for that conquered, the disease vanilhes. To explain, let us take the Dropfy,-its causes have been faid to be, " an hereditary disposition-drinking strong li-" quors, want of exercife, excessive evacuations-fudden stop-" page of those which are cultomary and necessary-large quan-44 tities of cold, weak, watery liquors drank when the body has 66 been over-heated by violent exercise-a low damp marthy fi-46 tuation-long use of poor watery diet, or viscous aliment that is hard of digestion. It is often the effect of other diseases, as " jaundice, scirrhus of the liver, violent ague of long continu-44 ance, loofenels, dylentery, an empyema, or confumption of " the lungs-in short, whatever obstructs perspiration, or pre-" vents the blood from being duly prepared, may occasion a "dropfy." These may produce this malady, I do not deny, but that not one of them is the immediate cause against which our remedies are folely to be levelled to perfor a cure, nor any number of them, except such of which dropfy is only a symptom. It is to the effect brought on by these causes that we are to attend, which I take to be general relaxation of the folids -- a thin watery blood-and a weakened action of the abforbents, (23. 4) by which more water is thrown into the cellular fyslem and different cavities by the exhalent, than can be taken up by the abforbent vessels.

From the enumeration of the former, not any thing can be collected respecting the cure-but from the immediate causes every thing, as they plainly point out the indications, viz. to invigorate the solids, and increase the action of the absorbent system, that the water may be taken from the places wherein it is deposited, and thrown out of the machine.

It was the defect in these particulars that furnished one principal reason for presenting this work to the public, in order to supply other information absolutely necessary, and more effentially beneficial. I have therefore been obliged to divide the

^{*} Where the figures are put without the No. these refer to the Page ... where with the No. or succeeding it, to the Prescriptions in the different forms ... and this throughout the work

work into diffine heads-the first of which comprehends the ANATOMY of those parts in which refide the active powers of the constitution chiefly, with intent to make my reader acquainted with the nature of them, their uses, connections, and dependencies; that he might have some idea of the materials upon which he was to act; as well as be taught what he might expect from them; for to attempt to teach a man the mode of proceeding in any art, without informing him of the nature of the fubject to which he is to direct his attention, would be like throwing a rough diamond to a glass-grinder, he might defroy, but never polish. Suppose a man feized with a pain in his bowels, attended with trifling evacuations, he lees cordials are good in some of these cases, and slight opiates-he takes them, they give him relief for fome time-they return more violently, he has recourse to the same remedies, 'till an inflammation comes on-confidering the intervals of ease he has obtained, he has no conception how this can arife-let him be informed of the structure and nature of the bowels, he will soon understand that they are subject to irritating causes, liable to inflammatory affections; and readily conceive why those irritating causes must be removed before cordials and opiates should be taken; which he could never do without such knowledge of the parts. Indeed, I believe for want of this many have fallen facrifices.

The parts being shewn in their simple state, I have next spoken of them collectively, shewing the nature of different constitutions, which are formed by the combinations of these. I conceive this knowledge essential necessary towards the preventing of disease, palitating such as are incurable, and conquering those which lie within the reach of our powers; for there are a variety which require particular attention, in order that full essents may be given to our regimen, and medical treatment; for, without the one is properly adapted to the other, we shall not only be foiled in our attempts to cure; but the very means used for preservation from, will be instrumental in bringing on disease, which too frequently proves mortal. This we need not here farther elucidate, as what we have said in the former part of the presace, and in the introduction, render it unnecessary.

Thus far the parts of the machine to be afted upon have been confidered. It remains now to speak of those which are the agent, the NON-NATURALS, so term'd, and MEDICINAL SUBSTANCES—the first of which have called forth my attention, in order to shew the great influence they have on, and how by being properly managed, they contribute to keep the

body

in a flate of health; for it is almost folely on them that we must depend for this purpose---for good air---proper alimet, moderate in quantity---suitable exercise and rest---with the subordination of mental affections, form the best plan for our bodyly security--we have therefore endeaveured to show how they act under different circumstances, and how necessary it is to lay down rules with respect to them; which, by observing, supply the most pleasing consequences—freedom from pain, vigour of nind, and a placid old age; and, by neglecting, the contrary extremes---besides, we have considered some of them with respect to their powers as medical substances, and shown how they act, as by these means we might assorbe as potentially of properly combining the two, that they might affilt in strengthening, and not, by producing contrary effects, counteract each other.

As for medicines, there, perhaps, my reader may confider me too fyflematical, as I have preferved the terms of the ichool-, and reasoned too abstractly, perhaps, according to his comprehension. However, when it is known that I have given the derivation of every term, and explained the powers of each c.afs, as commonly conceived, in a manner to render them in this place cashly intelligible; for the terms themselves, once understood, are infinitely more expressive, and involve more ideas than any other which might be thought more familiar, I fhail, I hope, fland excused, as well as for dwelling upon the powers which medicines exert; for it appeared not only necessary to speak of the good that was likely to accrue from this action, but allo of the mischies which they might create, injudiciously applied; therefore I was to exhibit them in different views, that it might be known where their exhibition was fafe, where uncertain, or perhaps detrimental---because a medicine may be proper respecting a complaint to be relieved, but its mode of action injurious to the conflicution --- for inflance, coffiveness is to be removed, if it should be attended with heat and pain in the bowels, shewing that in them there is a great irritation, and that the blood must circulate too freely, the slimulant purgatives, are improper, (173.) -- if there should be coldness in them, and the blood circulates uncommonly flow and languid the cooling, (1/11.) figuild not be used--- and if habitual confiveness be an error of the habit, the aftringent kind, (172.) should be avoided.

I should be traced by some of my semale readers with inhumanity, if the siding race of infants were forgotten, with whom many have field like is to be done. Take them from the indulgence of lond parents; the vanity, invorance, neglect, and felfifthers of conceited nurses, I believe very little would be necessary; fave where they, like adults, were liable to be and it with accidental complaints, and then properly nursed, they was a be more readily cured. To the formor I can only reply; my animadversion must yield to "who can help it." I lament the misiortune of the infant, and pity the feelings of the parent, whose partiality lays the foundation for ten thousand heart-aches—and to the customs of the latter, with all their train of poisons, I oppose the plain directions given under the article Nursing—to the perusal of which I recommend all mothers, and rational superintendants, and leave it to speak for itself; it is uncomplicated, founded upon tacks deduced from observation and experience, and supported by the voice of reason.

The parts of which we have here fpoken form what is necessary to be understood before any one should enter on the practice of physic, as without these the adventurers sail upon the bosom of a dangerous sea, divested of rudder and compass. It must be so clear to common observation, that I shall consider it admitted; and proceed to close with the account of the practical part—and here I have laboured to be as simple, and usual-

ly concife, as the nature of fuch a work would admit.

After thewing the tendency of the difease in general, I have particularised the description of each, that is, collected the symptoms which have happened, forming its history; but as the whole of these do not always occur, yet will would burthen, from their number, the memory of those who have slight knowledge, or are totally uninformed—out of those I have ielected the characteriffic figns, by pointing out fuch symptoms as are agreed always to attend, laying down before the remote or immediate causes: because if it appears that the patient has been in the way of the former, it increases the probability of his being attacked by the latter, which give origin to the difease. In this there icems to be a peculiar advantage, because the immediate cause or saufes being remembered, leads us fairly to account for a number of the symptoms by which the patient may be oppressed. This needs no exemplification, on comparing one with the other, it will appear obvious.

With respect to the medicinal substances, a catalogue is given of them classed under disserent heads, with the common doses annexed, and also a variety of formulæ—in the stress place, for the purpose of supplying a number of materials possessed of similar powers, though in different degrees, under one head; that the prescriber might have an opportunity of making his own election, and varying them as particular circumstances might require; besides empowering him to prescribe in the most simple manner-

in the fecond, to shew the nature of medical composition, how and in what forms particular ingredients might be united; and here I must observe, that the compound medicines I have used are chestly those of the last London dispensatory; where they are

not, they are particularly specified from whence taken.

There are, alto, other advantages in this work, which will be to young students of no little confequence; for here they will be relieved in their invelligation of the real meaning of technical terms, as they are either explained in the body of the work where they occur, and references made in the Index, or in the Index itself; and the various articles referred to dissert places will shew them the different powers they posses, as well as the best modes of composition—for instance—myrrh is referred to 142. 164. 183. 193.—by these it will be shewn, that it is a stimulant—expectorant—emenagogue—and antiseptic, and the rest of the numbers following the letter F. will refer the reader to he different forms in which it is prescribed.

Such, then, my plan, such my reasons on which I risque its support. It is not for me to determine whether it is happly conceived, or well executed. Some things have I borrowed, much altered, and many additions made, wherever I thought it night enswer any good purposes; for my intent

was-

To give rational information to those, who, not being properly educated, are obliged to practise from necessity; declaring, at the same time, my wish to stop the daring hand of inconsiderate rashness, bold from ignorance, and careless from

contempt of focial duty,

To convince those who are led by humanity, or whom in-flinctive whim, too oft mistaken for that virtue, prompts to visit the miserable roofs of fickly indigence, that something more is necessary to constitute the medical pilot---to convince them, that in family recipes, and borrowed nostrums, there is little success, and less security---that if stimulated by the desire of doing good, the materials to which they should be limited, lie within a nerrow compass--warmth--decent cloathing, moderate living, industry, and cleanliness. These form the regimen of conscientious elegance; and are, nine times out of ten, the poor man's best prescriptions--these are the powerful cordials--these the restoratives of a good Samaritan--and with these every hospitable house-wise would be a physician superior to an Hippocrates without them.

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INTRODUCTION.

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SECTION I.

HEN we reflect on the precariousness of man's existence in this life, the multiplicity of dangers with which he is surrounded, even from the first moment of his being to his ultimate stage; and also that the sabric of his machine is to formed, that the means necessary for its preservation are so many instruments wearing out its powers and conducing to dissolution; and, at the same time, consider, that he is subject to an immense variety of diseases, which often occasion him to drag out a life of pain and misery; nay, frequently cut him off even in the bloom and vigour of his age: it will not appear extraordinary that many men of the first, and most distinguished abilities, have devoted themselves, not only to the study of Medicine, in order to cure those maladies, by which man is constantly attacked; but also prevent their origin, or the mischiefs which are apt to succeed.

From the time of GALEN, who has, upon this last subject, written most elaborately, to the present day, we have had various publications, calculated to instruct mankind in the Art of preserving Health, preventing Diseases, or shortening their Duration by the use of judicious applications: indeed, of late years, their particular documents have been studiously conveyed in such a style, as to be readily intelligible to common understandings; so that each man might become, in some degree his own Physician. Such laudable undertakings merit the highest praise, and, if well conducted, promise the most salutary consequences, for there can be no doubt but the modes of preventing Diseases, thortening their Duration, and wanding off their evil tendencies by early assistance, are not only the eartest, but satest, and most

pleasant.

What has been written on this subject may to many, perhaps, appear sufficient: and so it probably might be, were all men's constitutions similar; for the methods advited by many of those authors, are selected with great jud ment, and extremely well calculated to answer the ends proposed, under the circumstance above specified; but there seems to be a very great defect in all

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the publications which have treated on these subjects—they give no information to their readers how the variations of constitutions are to be distinguished, or in what cases the methods are properly to be altered; and without this the prescribing of remedies can be considered little less than a species of quackery,

by whatever authority it may be fanctioned.

The universality or generality of any medicine furnishes the idea of the most slagrant absurdity, suitable only to the arrogance of every ignorant impostor; and certainly appropriating remedies of the same specific nature to one complaint in all constitutions, however dissimilar, is, at least, a branch of the same tree; for it is a fast uncontrovertible, supported by the soundest experience—that what may be of great service to one constitution, may to another be highly detrimental, though labouring under the same affection.

To elucidate this, I shall adduce a very familiar example—to many of my readers, perhaps, experimentally comprehensible; I mean the mode of obviating the effects of INERRIATION.

Under this circumflance we will suppose a man of strong stamina—fail habit of body—with good digestive powers, and a nervou system acting with firmness and regularity; and one, of a relaxed constitution—not abounding with blood—a weak,

delicate flomach—and the nerves eafily irritated—

The advice to alleviate the constitutional disturbances occasioned by this indifferentian-is lying in 1.1, and promoting perfpiration by plentiful dilution, that is, drinking copiously of weak tea-famall broth-thin gruel-weak white wine or vinegar whey-or fome fach liquors warm, that the superabundance may be evacuated with which the patient has been loaded, and the body foaked, as it is termed, into its fober flandard. For the robust man the advice might be proper-for by the furcharge of the vafcular fystem, and the slimulus of the intoxicating liquids, his habit becomes nearly to affume an inflammatory difpolition, discovered by pain and a sense of fulness of the head; reducts of his eyes; quick firong pulle; much heat, and great third-which are the general concomitants of fuch a debauch; and thus he requires abitinence, evacuation, rest, and dilution for his alleviation. But the same mode, applied to the other, renders all his conflitutional defects worfe, he experiences the nneafy fenfations of languor, fickness, oppressed spirits, and undefcribable finkings --- all increased by such a regimen; whose good confequences are derived in the former cure from relaxation and debilitating the fystem. The delicate constitutioned man requires fresh air, riding on horseback, a glass or two of generous wine, or fome cordial, fuch as will invigorate the pow-

cas of his habit, promote valcular action, arengthen his stomach, increase insensible perspiration, and thus conquer those unhappy feelings he labours under from increased weakness and debility. Simple as is this fact, and of little confequence as it may be thought, the fame peculiarities occur in difeases of the most alarming nature; and I am perfunded that it is from ignorance or inattention in this point, that people are apt to increase their maladies, nay often make that, which would, left to itself, have been mild, become dangerous by applications not adapted to the particular nature of the conflictation. For as curing Mieafes depends on the knowledge of this particular, by which we can more certainly appropriate our remedies to the benefit of the afflicted, fo doubtless must it be a more effential point in preferving from, preventing, and shortening their duration, as in all our endeavours we must attempt to keep the constitution in, or bring it to a flate of health, confiftent with the principle of its formation, and the nature of the particular parts of which it is formed—and how can this be accomplished without the peculiarities of the constitution are known to the person applying remedies, or fixing on any regimen?

In order, therefore, to attain this point, as these sheets are addressed to the un-informed, it appears unavoidable to give some account of the human machine, with regard to the structure, dependencies and astion of its parts, before we enter on the means to be used in particular cases, that every man may be informed of the materials upon which his remedies and regimen are to operate; be able to discover their particular state, and hence proceed with some degree of regularity and certainty.

Now the human machine confifts of SOLIDS and FLUIDS, differently disposed, for the purpose of supporting each other; so that as the parts are worn away or destroyed by the necessary actions of life, they may be again supplied; and this diminution and accession preserves a constant routine, until the animal agreeable to the laws of nature, is destroyed by its own exertions, the machine being rendered incapable of continuing its vital actions: thus, without any preternatural cause, gradually descends to the grave.

But in order to promote the different purposes allotted to the folids and fluids for the well-being of the human body, they are variously divided.

The SOLIDS into bones, cartilages or gridles, ligaments, muscles with their tendens, nerves, vessels, glands, and membranes.

The FLUIDS, into blood, nervous fluid; perspirable matter slowing through the skin insensibly, or in form of tweat; saliva

feparated by the glands of the mouth and throat; ear-wax; mucus; gastric and intestinal juices, liquids secreted into the stormach and bowels; cystic and hepatic biles, separated by the liver, lodged in part in the gall biadder, in part emptied into the first bowel called duodenum; pancreatic juice, or that of the sweet bread; urine, semen, liquor of the prostrate gland, and that sluid which moistens the internal surface of all cavities; the glary mucilaginous liquid of the joints called synovia; tears, mucus of the nostrils; a white nutritious sluid separated from the food in the intestines, called chyle, lymph, fat, and marrow.

It will not be necessary to give prolix accounts of the different component parts of the human machine; but only such as may enable our readers so far to understand the anatomy, as to furnish ideas sufficient to assist them in pursuing the suture subject with some requisite degree of accuracy.

CHAP.

C H A P. T.

Of the BONES, CARTILAGES, and other component Parts of the Body.

THE BONES are the hardest, and most solid parts of the human machine, calculated to support those which are foft and less firm, in all their motions and pressures; they are covered with a membrane, or thin bladdery substance, called periosteum, on account of its covering the bone, which is exquisitely sensible, being plentifully supplied with nerves and blood vessels. The outlides of bones are commonly more compact than the inner parts: and are formed of plates, joined together by transverse fibres; their infides are spongy and cellular, in which is contained marrow, within membranous bags, filling up the cells: this marrow, being more or less distributed over all the bones. and transuding through their plates and fibres, makes them tougher, and less brittle; the bones are supplied both within and without, with blood vessels and nerves.

CARTILAGES or GRISTLES, are folid, fmooth, white, elastic substances, between the hardness of a bone and that of a ligament, (see ligament below) covered with a membrane called perichondrium, because it covers a cartilage, which is akin to the periosteum of the bones; they serve to make the bones. whose extremities or ends they cover, move freely in the joints: they limit the growth of bones, as to their length, by hindering the bony fibres from sprouting out; and, therefore, when the cartilages in the joints are eroded, an immobility is there formed, called anchylofis, or stiff joint, by the elongation and coalition of the fibres of the bones that are articulated together: fometimes they ferve as ligaments to join the bones together. and fometimes they do the office of bones to greater advantage than these would do; as the cartilages of the ribs, which, by their elasticity chiefly contribute towards expiration; the cartilages that make out brims of cavities, &c.

LIGAMENTS are white, tough, flexible bodies, thicker and firmer than membranes, and not fo hard or folid as cartilages, without cavity; difficultly firetched and with little elafticity; they ferve to connect parts together, and keep the part to which they are fixed in a proper fituation, as appears remarkably in the joints or articulations; they are made up of fibrous layers or strata; the largest and strongest of which run lengthwise.

MUSCLE,-This is the name of the immediate organical in-Arument of motion in the animal body, whether voluntary or involuntary; involuntary; it is called organical, because mere elasticity is the immediate cause of some motions, as in expiration*.

The general characteristic of a muscle is, to consist of sleshy sibers which, when acting, contract themselves, and become shorter; this contraction, according to different circumstances of the muscle, and the parts to which it is fastened, produces different effects, and different motions.

If one end of a muscle is tied to a fixed part, and the other to a moveable one, when it acts, its sibres contracting will pull

the moveable part to that which is fixed.

If both the parts, to which the extremities of a muscle are attached, be moveable, by its action, they will be both drawn towards each other.

If the muscle be hollow, and contain a shaid, when it contracts, it will press upon, and endeavour to expel its contents; such a muscle as the heart, and in some measure the stomach, and uri-

nary bladder.

If the fibres of a muscle return upon themselves, in the form of a ring, when they contract, they will diminish the area within that circumference, making the circle narrower. Such muscles are employed to shut cavities, and are called sphineters, because they have the power of closing cavities and restraining the exit of

any thing they contain.

TENDONS.—These are continuations of slessy, muscular strong cach tendon being divisible into as many fibres, or rather bundles of fibres, as the muscle itself is to which it belongs; but the tendinous libres are more compacted and smaller, drier and harder, than the slessy fibres; they are not capable of contraction, but serve like ropes to pull, when the slessy fibres act, for the commodiousness and simmers of insertion, and for the direction of motion.

NERVES.—These are soft white cords, proceeding either from the brain or spinal marrow, and running to every minute part of the body, and are the immediate instruments of sensation, and indispensably necessary for the continuance of muscular motion. They are supposed by many to contain a very subtile stud, but appear without any cavity discernible even by the finest microscope.

VESSELS in the machine mean the animal tubes or canals through

^{*} The arteries have been supposed by some to contract themselves after distends to by this elastic power; though they may in some degree, yet not totally, for they certainly, and I believe it is generally allowed, act by the contractile power of their muscular coat, as may be instanced in blushing—and their sudden increase of action from other local instancing causes, and some nervous affections.

through which fluids or juices move; the least imaginable vessel is made of the least membrane, rolled up in the form of a hollow cylinder, or part of a cone. The vessels, as their coats must be thicker, are composed of thicker membranes, upon which smaller vessels run.

These are divided into ARTERIES, VEINS, ABSORBENTS, SE-

CRETORY veffels, and EXCRETORY ducts.

ARTERY.—This is the name of that kind of veffel which, arifing originally from the heart, contains a fluid whose motion is directed from thence towards the extremities and surface of the body. The larger and easily visible arteries contain red blood, are of a conical figure—flow, tapering from the heart forwards, and ramifying variously; in living animals they beat, or have what is called a pulie, arswering to the motion of the heart; their coats look whitish, and are pretty thick and strong.

VEINS.—These contrin a shaid whose motion is from the extremities or surface of the body towards the heart; their coats are thinner and more transparent than those of the arteries, and, therefore, they appear of a bluish, livid colour, the blood shining through them. In many places they have valves within them,

which open towards the heart, and thut the contrary way.

ABSORBENT VESSELS.—So called, because they absorb or take up suids, and are divided into Lymphatics and Lagteals, from the particular liquids they convey to other parts—they are similar, only have different origins, and calculated for different purposes, from whence they take their names, the former convey the lymph or aqueous sluids, the latter the milky juice, formed from the aliment in the intestines called chyle; the lymphatics are the general absorbents, and carry the juices to what is called the receptaculum chyli, thoracic duct, and left subclavian vein; the lacteals to the receptaculum chyli, or receptacle of the chyle.

The lymphatics and lactuals are very fine vessels; the former of which arise from the surface of the body, and all cavities or cells of the cellular membrane; the surface of the intestines, of the urine and gall bladders, of the ventricles of the brain, and of all other parts, and carry a pelucid liquor toward, the receptaculum chyli, and the thoracic duct, in which, like the lactuals,

do they all terminate.

SECRETORY VESSELS.—These are all those tubuli or minute tubes, in the different organs, which are adapted for the purposes of secretion, prelumed to separate and strain off the different humours from the general mass of shuids.

EXCRETORY VESSELS are those tubes or ducts which also belong to the different organs of fensation; whose office is to

carry off the humours that are feparated, and either convey them to their appropriated receptacles, where fome of them are depo-

fited, or discharge them out of the body.

GLAND denotes in general an organical texture, of a circumferibed figure, framed to as to separate from the blood, a liquid, different from, and unlike the blood; of these are various kinds, fome more simple, others more complex or compounded, and are called by the common people, kernel.

MEMBRANE.—This is a web or rather a lamina, or flough formed of a very thin fubflance, appearing like a bladder, whose thickness bears a very small proportion to its breadth and length. Most, if not all the membranes, we see in the animal body, are

composed of, and resolvable into thinner ones.

FIBRE is a small thread or filament, without a cavity, at least without one visible; whose breadth and thickness bears a very small proportion to its length; the least fibre of all is too minute to be perceived by our senses, however affisted. The sibres we can perceive, are no other than so many bundles of smaller ones

tied together.

Now these are the different solids of the human machine simply considered, and being differently disposed and united, by means of the cellular membrane, of which we shall soon speak, form the human body. This is divided into the LIVING SOLIDS, called folida viva, and into the INERT SOLIDS, called folida inecrtia, which constitute the hard parts, and help to complete the cellular system.

Their are again divided by physiologists, or those who treat of the human body and teach the uses of its various parts, into three system. The VASCULAR SYSTEM—the NERVOUS SISTEM—and the CELLULAR SYSTEM.

The FIRST of these has the heart for its center; that is to say, all the tubes or canals which are comprehended in this division, either carry fluids out from the heart, or return and convey them to it, and assurprehend every species of artery, vein, sinus, duel, and absorbent coffel, and may be distinguished into circulatory vessels, exerctory vessels and absorbents; vessels, through which the blood circulates, by which particular sluids are separated from it, by which these last are carried from the place where separated, and by which sluids are taken up, and carried into the machine.

The CIRCULATORY VESSELS include all the arteries, which fpringing from the aorta or large artery of the heart, and that called pulmonary, supplying the lungs, carry out the general mais of blood, and all the veins, which being reflected back,

and uniting at the two great finuses of the heart, return it, and thus maintain perpetual circulation.

The feoretory, excretory veffels, and absorbents, we have before

explained.

The SECOND or NERVOUS SYSTEM, has the brain as its basis, from whence issue different portions called medulla oblongata, spinalis, and nerves. Some affirm that there are two sets of nerves—the one adapted principally for the purpose of perception and sensation, bestowed on the several organs of sense, internal and external; while the other is blended with the muscular sibres, because it is observable in certain diseases, that the muscular strength shall be totally exhausted, and yet the powers of perception and sense situation remain entire; and on the other hand that the muscles shall sometimes exert predegious strength, while the senses are all locked up, hence the authority on which is sounded the distinction.

But we must observe, that though all animal motion seems to be derived from the nervous system, and although the heart, like every other muscle, can act no longer than the communication through the nerves which are bedowed on it, remains free; yet there is a necessity for distinguishing between the vascular and nervous systems; because it will appear, when we come to inquire into the nature of diseases, that there may be evident disorder in the one, while little or none shall appear in the other; and this consideration will greatly influence us in the directions necessary to be given for procuring relief. These form the live

ing Solids.

The INERT SOLIDS, not only constitute such parts of the body as have neither nerves nor vessels; viz. the cuticle and its continuations; the nails; the hair; great share of the subflance of bones; cartilages; ligaments; tendons and their membranes: but these inert solids form the connecting medium every where between the living folids, binding together every. minute veffel and nervous filament; and there are manmerable nerves and veffels in all parts of the body, except those above mentioned, which no eye can trace : yet, if we reason from analogy, and fay, that the fmallest branches and filements are like the visible trunks and cords, then the transverse section of these must be circular; and confequently, when they come to be interwoven or laid together, they must universally leave intermediate pores, and minute cavities; hence we may understand, that though there may be fome parts of the body, which have neither nerves nor veilels, i. e. no living files, vet there is no place in the whole fabric to which the cellular lystem does not extend, and where there is not some mixture of inert folids; besides uniting and binding together the different species of vessels, which either rise from or terminate at the heart; and all the nervous cords or filaments, which spring from the brain or spinal marrow, however variously they may be combined, disposed, or interwoven; and this sibrous and laminated connecting substance is not endowed, like the living solids, with either tense of feeling or

power of motion.

That the GELLULAR SYSTEM extends itself universally throughout the whole frame, and has a general and free communication, feems fully proved by some particular diseases, such as universal dropfy, called anasarca; where water distuses itself through the whole body; or emphysema, where air occupies the same space, passing from pore to pore, and cell to cell; for this membrane confists of a number of little cells, hence its name, which in many parts communicate with each other.

In the natural and healthy flate, the cavities of the cellular fystem, are either filled with a thin fine sluid called lymph, or with oil—hence it is distinguished into two parts, the lymphatic

and adipose, according to the substances it contains.

The pores, or minute cavities of the lymphatic part, are always to be underflood as interposed between every nervous fibril; whereas the adipose cells are not io universally extended, the fat or animal oil being always lodged in distinct bags or vesicles, else, was it suffered to distuse itself as freely through the cellular system at large, it would be equally distressing and fatal with the spreading of water in an universal dropsy, or of elastic air in an emphysema.

CHAP. II.

Of the BRAIN, and the other more complex Parts of the Machine.

AVING now shewn the folid principles, and the systems of which the human body, aggregately considered, confids, we shall take a view of some parts which are formed out of these, with their sluids and uses, and give such accounts as may be requisite for the proper information of our readers, to enable them to discover what parts are affected in particular diseases, and distinguish their nature. We therefore begin with the BRAIN, which is a soft pulpy substance, surrounded by two membranes, one called dura, the other the pia mater—and has also a third called arachnoid, from its sineness, similar to a spider's web—the chief

peculiar-

peculiarities to be taken notice of for our purposes are the SI-NUSES, which are nothing more than large veins or receptacles for blood, and the VENTRICLES. Like other parts of the body it has a variety of arterial branches coming from the heart, which are diffused through its substance, and on the membranes -from this is derived the whole nerves of the human machine, as the spinal marrow is no more than a continuation of the brain through the vertebræ of the back-and this is confidered the fource of all perception, fensation, and support of muscular motion .- It is not confidered in itself very fenfible, but can transmit most acute sensations to every part of the body by means of the nerves, when in a state of health—and most violent ones when difeafed; there is not the smallest portion of the living solids but is materially connected with it-fo that it not only gives strong impressions to, but feels strong impression from the smallest portions when affected; and it may be confidered the fountain of all nervous incitability, by which all the parts dependent upon the nerves are put into motion, or continued capable of perfevering in their action.

And here, as we shall often have occasion to speak of NER-VOUS INCITABILITY, and MUSCULAR IRRITABILITY, two powers to which we allow the existence of the machine, in a living state, and the action of all its moving solids with respect to their continuance, are entirely owing, it will be proper to describe what we mean by these two terms; because they certainly do in some degree exist independent of each other, notwithstanding their intimate union, and in general conjunct action—and also, as by this knowledge, we shall in some cases be able to discover, how from particular defect in these two powers, separately attended to, diseases put on different appearances—and are to be prevented, alleviated, or cured by our applications made to them distinctively as well as unitedly.

By INCITABILITY we mean that power in the brain and nervous system, which may be put into action by mental affection, as well as local irritation, and which produces those appear-

ances we call fympathetic.

By IRRITABILITY we mean that power which may be put into action by material stimulus locally exerted—yet is obedient to the instruence of the nerves in general—and cannot, in the living machine, exist for any considerable time without this union.

To elucidate this, we shall observe that many will be thrown into convulsions by uneasiness of mind---we also know that the same complaint will be occasioned by severe irritation on some part or parts of the machine; or that parts themselves only will,

from this fource, experience such effects---as in cramps. Now as we are totally ignorant how the mind acts upon the brain, and nervous system---kow these act upon the muscular sibres---nor can we conceive how immate rality, which we take the thinking faculty to be, can act upon materiality, we can by no means make use of a term which points out specifically the action of these causes productive of morbid effects.

In order then either to prevent, alleviate, or cure the complaint from thence arising, we prescribe such things as may amuse the mind, and keep it free from those painful reslections---and put the body i to such a state as to reader it less susceptible of im-

pressions from this source.

On the other hand, we advert to the part or parts affected, and by our applications locally directed endeavour to remove the irritative cause in order to promote a cure----and with intent to prevent a return, do such things as to render the part or parts incapable of being affected by the cause, or put under such circumstances as to render the accession of that cause impracticable---hence we think the discrimination between the two terms absolutely necessary---as we shall in advising remedies always pay the strictest

attention to constitutional peculiarities.

The LUNGS are fituated in the cheft, and there divided into two large portions called LOBES, the one on the right, and the other on the left fide, which are separated from one another by a transverie membrane called mediastinum --- dividing the chest into two equal separate cavities, that have no communication with one another: but the left lobe of the lungs is confiderably lefs than the right, because the heart with its membrane, called pericardium, from i's furrounding the heart, with the great vessels that open into it, are contained in the left division .-- The lungs, befides their external membrane, and cellular texture of which they are composed, are a congeries of air vessels from the windpipe, which is a firm tube, made up of cartilaginous or griftly rings, joined together by muscular fibres -- these rings backwards are incomplete; this descends into the breast almost to the basis of the heart, and there divides into two great branches, the one right, and the other left; which again are divided and fubdivided into leffer and leffer ramifications .-- and fo distributed through all the fubstance of the lungs, terminating at length in small membranous, dilatable cells, or vesicles --- as well as these, there are veffels which carry blood, and juices derived from the blood; and these two kind of canals are so uniformly dispersed through the lungs, that in every physical point there are branches all over, besides these they are supplied with nerves and absorbents. Various are the uses of this organ. The

The most important is that of respiration, by which a trajection of blood is effected through their fubstance, and circulation completed, in which life confilts; by comminuting, condenling, and rounding its particles, and thereby adapting them to flow through the canals of different fizes in the body; creating redness in its globules -- betides it has several uses which are of the greatest consequence to the animal, for by this means the abdominal vifcera are with a continuance alternately pressed upon, and freed from that compression; by which means concoction in the stomach and intestines is promoted; and the circulation through the lystem of the vena portarum, or large vein of the liver, which otherwife would be too fluggish, is urged on. The twees and urine are expelled by its efforts; fmelling is performed by inspiring, or snussing up air; the fœtus is excluded by its affiftance; and fuction, fo necessary for the preservation of the new-born animal, is performed, and without it there could be no fuch thing as voice or speech brought about. Belides, the lungs are confidered as the recipient of animal heat, that is, the quantity of atmospheric air which rushes into the lungs at every inspiration being loaded with those particles creating heat, they are separated from the air and pass into the blood, and by their evolution through the course of circulation form an universal this mulus to the vafeular fystem--and at the same time they perform the office of excretion, throwing out such matters which have become ufelefs, and would be hurtful if continued in the habit.

In the middle of the cheft between the two lobes of the lungs, rather inclining in its polition to the left fide, lies the HEART. It is a ftrong hollow muscle, having two cavities, separated by a septum or division, which are called ventricles, out of which issue the two large arteries of the human machine---one called pulmonary artery, because it serves the lungs; the other aorta, or large artery of the body; near the mouths of these two ventricles are two other hollow muscular substances, from their similized to dogs ears, called auriculæ, into which the vessels called vena cava descendens, and ascendens, and pulmonary veius open---the two former into the right, the latter into the left. It is also enveloped with a membrane from its situation, surrounding the heart, called pericardium, by which, and the large vessels, it is kept in a fixed position, within this membrane there is a small portion of a serous shuid.

As we have confidered the brain to be the source of all incitability, so do we the heart one at least, and that the principal source of irritability, whose chief office is to promote the circulation of the blood, an account of which may not in this place be

improper.

But before we enter on that fubject, we must observe, that all the arteries of the machine ramify from the aorta, as branches of a tree from its trunk, dividing themselves into minute ramifications, in which there are no valves, except at the origin; whilst the veins must be looked upon as branches forming a large trunk, in which there are valves inserted, which open to the heart. Now in the former of these vessels there is required no such contrivance, because the blood, having a quick progressive motion from the contractile power of the heart and arteries, has a sufficient force impelling it from behind, which prevents its retrocession, whilst, on the other hand the slow motion of the blood in the veins and their weaker contractile power, unaffished with a force adequate to that of the heart, have great need of such an invention to prevent its regurgitation, and secure its return to the heart.

Now for a moment let us suppose the heart full of blood, that is, the ventricles have ceased to beat, and that it is put into motion by fome cause, what will be the refult with regard to the circulation? The leffer circulation through the lungs will be performed in the following manner; the blood will be propelled into the pulmonary artery from the right ventricle, pass through the lungs, and return to the left auricle by the pulmonary vein; in the same manner in the greater circulation it will also be forced into the aorta, disfused through the rest of the machine, and return to the right auricle by the vena cava, passing through the different glands, in order for them to fecrete fuch fluids as they are deffined for; whilft, at the same time, the capillary or hair like tubes, where there is no fuch glandular contrivance, will pass off the matter of perspiration, the auricles then being filled with blood will contract; eject their contents into each ventricle, and the same routine be performed again as above defcribed.

The particular organs which we have now mentioned must be looked upon as the three most material ones for the support, and preservation of life, and the sources and instruments of incitability, and irritability, by which they perform their actions, and on which all the moving powers of the machine depend; but into the account we must also take the blood, which, with the lungs, we consider as the recipient and diffuser of that sluid, or those particles which animate nature, and supply an universal stimulus, which occasions the action of these sources and instruments of vital motion.

The BLOOD is a red homogeneous or apparently uniform fluid, as it circulates in the vessels, from whence all the other fluids of the human machine are secreted, or separated; but when out of the body, and left to itself, divisible into three distinct subflances---ferum, gluten, and red globules, by a very simple process; though untouched, appearing only as two, called ferum and crassamentum, the latter floating in the former; but the crassamentum is of different degrees of summers in different

Subjects.

The SERUM in an healthy state is almost colourless; at other times, it is yellowish, or perhaps of a greenish hue, while the top of the crassamentum has different degrees of firmness, and puts on different appearances with respect to colour, according to the age, sex, and state of health of the subject from whence it is taken. The serum of the blood, like the white of an egg, coagulates when highly rectified spirit of wine, called alchohol, or any of the mineral acids, are mixed with it, or when heated to about 160th degree of Farenheit's thermometer; but other-

wife it continues in a liquid state.

The CRASSAMENTUM is composed of a peculiar fub-stance, which gives redness to the blood, and of, what physiologists term, coagulable lymph, from its coagulating spontaneously. This coagulable lymph may be separated from the red part in two ways; either by stirring the blood which is fresh drawn, with a whisk, when the lymph coagulating in a short time, will adhere to the twigs, and appear like a firm membrane of a whitish colour, composed of sibres interwoven with each other; or by placing a piece of crassamentum on a strainer, and pouring on water repeatedly, until the red particles being washed away shalk leave only the whitish substance behind.

With regard to the red globules, it is not perfectly agreed of what nature they are; but it is afferted that the red colour is owing to a mixture of fome portion of ferruginous or irony matter; in confirmation of which it may be observed, that the blood always becomes florid after a course of medicines of that nature; but whether it arises chiesly from the addition of ferruginous matter, or owing to the increased motion which these medicines always produce, will admit of some dispute, for it is always found that the blood grows more red, in proportion to the action and the strength of the vessels, and these medicines are allowed to produce such effects.

The proportion of the red part is small in respect to the other constituent parts, for one grain weight of this colouring matter, will tinge, in a perceptible degree, a thousand of pure

water.

Now as the blood in its healthful flate is a tenacious fluid, capable of receiving a greater portion of heating particles in proportion to its tenacity, as it palles through the lungs, fo ac-

cording

cording to its stronger or weaker tenacity, will it be capable of retaining more or less of these stimulating particles, thus from this cause, will it be more or less stimulant, and assist in producing different deviations in the constitution, besides it is from different causes liable to undergo many alterations; hence also will other differences be formed, of which we shall take notice in the succeeding pages.

Indeed we might give some general practical ideas respecting this point; but as many peculiarities arise from the state of other organs in the machine, that are worthy of observation, and necessarily combined with those already pointed out; we must now beg seave to describe them also with their uses, but first we

shall fay something on-

The THORAX or BREAST. This is a large cavity, fomewhat in the shape of a cone, reaching from the lower part of the neck to the abdomen or lower belly, from which it is divided by the diaphragm, or midriss. The bones which form this cavity are twelve vertebræ of the back behind, twelve ribs on each side, and the sternum or breast bone before. This cavity is considerably shorter before than behind, from the diaphragm slanting downwards, and backwards. The ribs which guard the greatest part of the eavity of the thorax, are all articulated with their respective vertebræ, in such a manner as to admit of a motion upwards and downwards; they are all, except the lowermost or twelfth rib, connected and articulated with the sternum, or breast bone; by the intervention of cartilages, or grisses, so as to admit of the same motion upwards and downwards.

From the structure of the ribs which are more or less arched, being convex outwardly, and concave inwardly towards the cavity of the thorax, it follows, that if the ribs are all moved upwards, round their articulation with the vertebræ, their arched middle parts must be pushed outwards and laterally, and the sternum, to which they are joined, outwards and forwards; and consequently, the cavity of the thorax will be widened and en-

larged.

But there is a fet of muscles which perform this office, which are called intercostals, from their being situated between the ribs, and are both internal and external; they run obliquely from the edges of one rib to those of the ribs nearest each other, for the whole length of the ribs, and from the highest rib to the lowest: the sibres of the external have a direction contrary to that of the internal, by which contrivance their joint action becomes the more steady, and the ribs being pulled in the diagonal of these two directions, endeavour to pull the ribs nearer one amother; drawing the inferior ribs nearer the superior, and thus

the cavity of the thorax is widened, that the lungs may expand

themselves in inspiration.

But there is another contrivance to promote this purpose; the DIAPHRAGM of MIDRIFF. This muscle, which divides the breakt from the lower belly, arises from the breast bone before, from all the ribs on each fide, from the feventh to the twelfth; and behind from the last vertebræ of the thorax, and the first one of the two loins. Its fibres run fleshy from the circumference to the center some way, and then become tendinous; the whole diaphragm flants, its anterior origins being remarkably higher than its posterior ones; it is not plain, but remarkably convex towards the thorax, and concave towards the abdomen; infomuch that its middle or center rifes always higher in the thorax than its highest origin at the sternum; when it acts, the fleshy fibres shortening, pulls the tendinous center towards their origin, that is, downwards, thereby rendering it plainer, and less convex, and so lengthening the cavity of the thorax down; hence the enlargement of the brealt is promoted two ways, by the intercostal muscles raising the ribs, and making it wider, and the action of the diaphrasm rendering it longer or deeper-and by these means the several uses above specified from the action of respiration, is promoted. See page 28.

Immediately under the diaphragm lies the LIVER It is of an irregular shape-its right part fills almost all, what is called the right hypochondre, or fide under the rib; below the diaphragm, in an adult body, when found, reaching commonly no lower than the short ribs. In the textus it is bigger, in propertion to the rest of the body, in all its dimensions-its middle part lies in the region over the stomach, called epigastrium; and its left in the upper part of the left hypochondre, not reaching to far down as the right; fome of its exterior parts are smooth and convex, humouring the concavity of the diaphragm; its under part is concave on the right fide, answering to the gut called the colon before, and the right kidney behind; its middle part, in which the gall bladder, called the vefica fellis is placed, lies over the gut, called duodenum, which touches the gall bladder; its left part covers the stomach—it is thick in the middle. and upper substance, towards its sides it grows slenderer, at length terminating in a thin edge; by a furrow in the interior and concave part which receives the umbilical vein, or that of the navel in the fœtus, on its anterior part; and by another anfwering to that backwards reaching to the posterior limits of the liver, which receives the venous duct, both which canals are pervious vessels in the fœtus, but in the grown animal degenerate into ligaments, the liver is divided into two unequal parts call-

ed lobes; the right being much larger than the left; th re is befides, a finall lobe in its posterior concave part, commonly called the lobule of Spigelius; there is likewife a transverse soffa, or furrow, running along the middle of its concave, and ander part, in some measure separating its anterior and larger from its posterior and smaller part; it is attached to the diaphragm, and its weight is in some measure supported by ligaments from that muscle, which are productions from the membrane which lines the infide of the lower belly called peritonoum, where it lines its concave furface, and is united by other fuch productions. with the neighbouring parts: it is furnished with afteries from ramifications of the aorta, called collac, mammary, phrenic, renal, and capfular-but it is furnished with voins of two kinds totally differing from each other, which cannot truly be faid of any other part of the body: to wit, the vena portarum, and its branches distributed through the substance of the liver, which perform the office of arteries, carrying blood into it; and the other veins, which carry blood out of it, emptying themselves into the vena cava, like the rest, all over the body.

As the rest of the arteries and veins may be compared to the trunk of a tree with its branches, fo may the vena portæ and its different ramification, be compared to the root, trunk, and branches-for it is formed by a conflux of all the veins, which return the blood from the stomach, omentum, spleen, pancreas, intestines, and mefentery; and answer to the coliac, and mesenteric, both superior and inferior, arteries .- It is worthy to be observed, that all this venous fystem, which by its union constitutes the vena portarum is unfurnished, unlike the other veins of the body, with valves; fo that from its trunk it may be injected backwards to the minutest origins of small veins, in all the parts just now mentioned. The trunk of the vena portarum, thus formed, enters the liver between two eminences in the little lobe, called by the encients, porta-that is, ridges forming a little channel or streight between them; as foon as it is formed into a trunk it is found to have got itronger membranes or walls than other veins, and even tougher than the abrta or large artery of the boay itself. This new and extraordinary flrength of the coats of the branches of the vena portarum, they carry with them throughout all the substance of the liver; and they are distributed from trunks to branches, insaller and finaller, in the fame manner as arteries are in the other viscera.

Thus is blood brought into the liver by arteries, called hepatic, of the common fort; and belides by the vena portarum, familhed with strong costs, and performing the office of an artery, the only instance of that kind in the whole body. The ultimate

Imall

small capillary branches, both of the hepatic arteries, and vena portarum, terminate in minute venous twigs, which arising all over the substance of the liver, and forming larger and larger branches by uniting together, at length open by several large mouths into the vena cava about the posterior, or gibbous part of the liver.

The liver is supplied with nerves from the intercostal, and par vagum so called;—they are but small in proportion to its bulk,

and therefore it is not liable to violent pains.

The great use of the liver is to separate bile, for many good purposes in the animal acquomy; and as it is now and then wanted more at some times, than at others, there is in the liver a recentacle for part of this fluid, called the GALL-BLADDER. which is a pretty large hollow veilel, nearly the shape of an oblong pear—fituated in a fovea or furrow, in the anterior concave part of the right lobe of the liver, reaching from before backwards; attached to the liver in different places by a cellular texture, covered over in its under part, by a portion of the membrane of the liver, which reaching beyond it keeps it fast in its fituation. Under this, all over its surface, is a cellular texture -next to that, a thin mufcular coat, confifting of pretty confpicuous, longitudinal, oblique, and circular fibres; under that a fecond cellular-then a nervous; and innermost of all a villous coat, fimilar to what is found in the stomach and intestines. There are likewife, especially in its smaller part or neck, pores, which yield a mucous juice, to defend it against the acrimony of the bile: from the same part is produced its duct, which stretching towards the left is inferted into one called the hepatic duct, which arifes from the repeated union, and conflux of the biliary ducts all over the liver; the union of these two ducts together forms the duct, called the ductus communis cholidochus, which penetrates into the duodenum, or first of the small guts, just below the stomach. Thus we find the bile separated by the pori biliarii of the liver, passes into the hepatic duct, part of which is conflantly pouring into the duodenum, and part into the gallhladder, whose use is to receive the bile, there to retain it, until it be squeezed back again by pressure of the distended stomach, and action of the diaphragm, through the ductus communis into the duodenum; -by staying there, the bile is rendered thicker, fome of its aqueous parts being reforbed by the inhaling veffels of its villous coat, and therefore stronger, and of a more saturated yellow; it likewife becomes more sharp, bitter, and rancid, by the heat of the contiguous and circumjacent parts; while the flomach is empty the gall-bladder is at liberty to be diffended and filled, and therefore becomes fuller after long fafting; and

the fuller it is, the less compression of the stomach is required to squeeze the bile out of it-fo that the more we are prompted to eat, and stuff the stomach by violent hunger, the greater quantity of bile will be poured into the duodenum, by the twelling of the stomach during digestion, to promote so much more effectually the coction of the aliments; and the cyflic bile will be the tharper, and stronger, by having remained so much the longer in the gall-bladder,

So that we find the duodenum receives two fores of bile flowing into it from the same canal, viz. the hetatic freth secreted from the liver, which never has been in the gall-bladder, but

goes fraight on into the inteflines, and the cyflic alfo.

Both biles are of the same natures and properties, differing only in degree, infomuch as many species of animals have no gall-bladder, and therefore are only furnished with hepatic bile, as amongst quadruneds, the elabant, borfe, als, and deer; amongst birds, the offrich, whele direction is to throng, the flork, and the

pigeon-not to mention fome fishes.

The BILE is somewhat viscid; coagulable by heat and alchohol; of a faturated yellow colour, inclining to green, extremely bitter; the sharpest, and most slimulating of all the circulating humours of the body, neither acid nor alkali when fresh, but Arongly incluing to, and quickly fasceptible of, putrefaction; and promoting that disposition in any substances with which it is mixed, if they are capable of it; it mixes readily with water, it flames not in the fire, unless it be dried, and then it burns almost all away: it is a powerful penetrating foap in every respect; it diffolves all gums and refins, being rubbed with them.

By these properties, when poured upon the alimentary mash in the duodenum, it must effect, first, a more intimate dissolution and mixture of the heterogeneous parts together, as it is readily miscible with water, and renders oil and oily fubflances fo; feconcely, though it is not actually an alkali, yet it nearly approaches towards it; and must dimi lish the acescent disposition of the chyle, of which we shall speak hereaster, and render it more similar to animal nature, which is alcalefcent: and lafely, by its Armularing power, as it is the most acrimonious of all the anianal fluids, it no doubt, helps to excite the periffaltic motion of the intellines, and thereby promote concoction; and, as like aloes, it is a purgative, which it refembles not a little, it affilts in the expulsion of the fæces; fo true is it what Lord Bacon fays, " that the bile is the incentive and stimulus of many functions of the body. ??

The PANCREAS, or SWEET-BREAD, so called, is a long, whitish, tender, and friable glandular mass, situated behind the

flomach

flomach and fpleen, under the liver. Beginning at the spicen on the left fide, it stretches transversely across the vertebra, and with its other extremity, is connected with the duodenum. In the human adult, it is about feven or eight inches long, and one or more thick; its end at the spleen is smallest, and it grows gradually broader, at it approaches to the duodenum, where it terminates: it hath arteries from the coliac; its veins run into the splenic vein, which opens into the vena portarum; its nerves come from the par vagnum, and as they are but small, it hath, like the liver, but imall fentation : its structure confills of small round acini or glandular shoots, connected together with much cellular texture; from each of these, there is a small duct sent out towards the middle; all thefe ducts open into the principal duct, which runs along its axis all its length, and opens into the duodenum, five or fix inches from the pylorus, or lower orifice of the ftomach, at the same place with the biliary duct.

As the structure of the pancreas is the same with the salivary glands, so its juice perfectly resembles the saliva in every property—and therefore may be presumed to have the same use—to dilate, open, and dissolve the alimentary mash, and render the chyle, to be made out of it, more similar to animal nature; as it is considerably larger than all the salivary glands put together, and situated in a warmer place, its juice must sar exceed the saliva in quantity. It is propelled into the intessine by the common impetus and course of circulation, assisted by the pressure of the adjacent parts upon it in breathing: It is poured into the put at the same place with the biliary duct, that it may be immediately mixed with, in order to temper and dilute, the bile, which is

both thicker and sharper than itself.

The OMENTUM, or CAWL, is a broad membrane, thin and transparent, tender, and easily torn, arising from the anterior and inferior border of the stomach, and falling down commonly as lew as the navel, sometimes much lower; then doubling backwards and upwards, is connected with the intestine called the colon, under the stomach, thus forming an empty bag. Besides, its principal connection with the stomach and colon, it is likewise attached to the duodenum, to the splean, parcreas, and measurery; it has immediately under the peritoneum forwards, being a production of its cellular part, and covers part of the stomach, and the greatest part of the anterior surface of the intestines.

It is every where a double membrane—but every portion of the thin membrane, by idelf, may be divided into two thinner membranes or floughs, which are joined together by a thin cellutar texture, in the cells of which fat is deposited: the secretion here is performed in the most simple manner, their being no other apparatus besides arteries, veins, and pinguidinous ducks, leading to the cells, or vesicles. The fat is distributed in the omentum very unequally, being in some places thin and transparent, in others an inch thick in fat; in corpulent persons it contains a valt quantity of sat; it hath its arteries from the exists veins terminate chiefly in the splenic branch, and all of them ultimately in the vena portarum.

The uses of the omentum are, first, to interpose between the peritoneum and the intellines, and part of the stomach—that all three parts may be preserved warm, moist, and slippery, and hindered from growing together: and secondly, to surnish oily mat-

ter for the bile.

The SPLEEN is fituated in the left hypochondre, that is, under the cartilages of the left short ribs; it is connected with the colon, flomach, left kidney, and by its upper part with the diaphragm; its fituation is changed by the fulnels or emptinels of the itomach; it follows the motion of the diaphragm, and is affected by the inflation or fublidence of the colon. In general it is placed upwards, and backwards from about the middle of the short ribs on the left fide; in its natural and found state, it is about fix or feven inches long, about three in breadth, and one in thickness, of an irregular and somewhat oval figure, and of a dark livid colour; it receives arteries from the coliac, these entering its substance, are divided into innumerable branches, and by their evanescent extremities terminate in minute veins, forming, by their union, the splenic vein, which flows into the vena portarum. The veffels of the spleen are very large in proportion to its bulk, and ce it hath no excretory canal but its vein; its nerves are small and few.

As the substance of the spleen is entirely vascular, with a tenler collular texture to support the vessels and keep them together; its chief use has been considered to consist in dividing and extenuating the blood that runs into and slows through it; and from its situation, as it is much agitated, this also assists in the circulation and comminution of the blood through it, and thereby rendering it sit to temper the sluggish mass sent from the omeanum and mesentery into the vena portarum, and expedite the secretion of bile in the liver.

As we confider the ŒSOPHAGUS and STOMACH continuacions of the fame tube, we shall proceed to describe them together, and afterwards make some observations on the intestines.

The ŒSOPHAGUS, or GULLET, begins at, or is continued with the PHARYNX or THROAT, runs down along the posterior part of the thorax, behind the wind-pipe, and most commonly somewhat to its left, passes through the diaphragm, and a short

way under it opens into the flomach, into which it conveys the aliments; it is made up of feveral membranes or coats: the external one is cellular—next to that is the mufcular coat, confifting of two pretty flrong plains of fibres, the exterior of which are nearly longitudinal, the anterior nearly circular. When the former act, they fhorten and widen the tube—thus fitting it to receive aliment; when the latter exert themselves, they render it narrower and longer, and propel the aliment onwards: this alternate action, begun at the origin of the canal, and continued downwards successively through its different portions, one after another, determines the rout of the aliment into the flomach.

Its innermost coat, called nervous, is tough and strong, fit to resist the hardness and roughness of what may be swallowed; it is lined with short villi, standing up like velvet, somewhat in the manner of those of the stomach and intestines, of which we shall presently speak. There are likewise numerous secretory dusts opening into it, which yield a mucous liquid, by which it is moistened and lubricated, in order to facilitate the passage of the

aliment through its cavity.

The STOMACH, or VENTRICLE, is fituated in the abdomen, or lower belly, immediately under the liver, which covers a great part of it above, and laterally; it is placed transversely, in the main, from right to left, but somewhat obliquely, so that its left or upper orifice, called cardia, which is continued to the æsophagus, lies more towards the vetebræ; and the right or lower, called pylorus, which opens into the intestine duodenum, more anterior. In agure it resembles a bag-pipe; its thickest part being its left extremity, at the implantation of the æsophagus, from which it tapers to the pylorus. The CARTILAGO ENSIFOR-MIS, or lower part of the breast bone, answers nearly to its middle: the spleen lies contiguous to its lower part, on the left, and the pancreas behind its bottom.

The structure of the stomach is in general the same as the exceptagus, of which it may be considered a dilatation. Its most external membrane is a continuation of the peritoneum; its next is cellular, in which its great branches of blood vessels and nerves run; in it there are likewise conslobate glands and lymphatic vessels. Under this lies the mascular coat—the exterior layer is a continuation of the longitudinal sites of the estophagus, which open and disperse themselves over the stomach—and as the stomach is by much the larger of the two, and of an integral a land, they must of course be thinner, and less numerous in rome places than others. They run motily along the length of the stomach, and terminate at the pylorus; they seem to mortion the stomach, though but in a seeble manner, and widen-

widen its middle. The other stratum or layer, answering to the circular fibres of the cofophagus, is by much the stronger of the two; its fibres run in a general way round the stomach, at right angles with its axis, though with confiderable and intricate deviations: they feem like the analogous stratum in the cofophagus, to lengthen the tube they encircle, and contract its cavity; a remarkable plain of this same stratum runs from the left orifice to the right by the shortest way, viz. along the upper and leffer curvature of the flomach; and appears to counteract its other fibres, by drawing the two orifices towards each other. And it is observed, hat at the entry of the @sophagus into the Homach, the circular fibres are remarkably thick and throng, which therefore may ferve, in fime measure, as a fphincler to it, to thuts its cavity there; but, upon the whole, the exact course of the muscular fibres of the stomach is so extremely difficult to be traced and defer bed, that hardly any two anatomists, unless they copy from one another, agree in their account of them. It is fusficient to conceive them to be fo framed and distributed, as to enable the stomach to press upon its contents every way, and gradually to expel them -Next to, and immediately under the muscular coat, is another cellular texture. more conspicuous than the exterior one, in which pretty large trunks of blood vellels and nerves run, after having penetrated through the muscular coat. Under it lies that called nervous which is a firm, tough, white, and pretty thick membrane, constituting the principal and most peculiar coat of the somach. The fixth in number is another cellular web, much thinner and more subtile than the two former-made up of shorter threads and laminæ—The innermost of all is the villous coat, so called. because it hath villi, or pile like that of velvet; flanding out from it; these villi are small membranous productions, or theaths containing minute tubuli, both of the arterial a: d venous kind, opening into the cavity of the stomach. The arterial 'ubuli pour into the stomach a liquor much more subtile than blood, to be mixed with the aliments for the purpose of direttion-and when the stomach is empty, this liquor growing sharper concurs with the faliva in exciting the fense of hunger, as has been faid; the venous tubuli are absorbent, and resorb liquids from the stomach; the innermost or villous coat being larger than the rest, forms wrinkles here and there, more or less conspicuous, but at the pylorus there is a remarkable one; where a duplicature of the coat formed by this wrinkle all round the pylorus, and projecting into the entry of the duodenum, ferves, together with the circular fibres of the mufcular coat, to contract.

of the alimentary much be expected out of the flomach into the intestine very gradually, and in finall quantities at once: over all the infide of the vilious coat, there open excretory ducts of mucous glands, feated in the fecond cellular membrane, which furnish a lubricating liquor, as in the ecophagus, ferving to defend the acutely fentient inside of the stomach from the acrimony or otherwise hurtful qualities of what we may eat or drink.

The Romach is plentifully furnified with Lood veffels; its atteries all come from the coeline, and its veins all compty themselves into the vena portarum: it is no lefs largely supplied with merves, every branch of which arise from the par vagnum.

Now the use of this organ is for the digellion of our food, in order to promote the nourifiment of the other parts of the body, as well as itself- and this it is supposed to promote by heat, moifture, agitation, and fermentation - all which, that it is capable of producing, it will be easy to conceive, when we consider its Aructure and fituation-for we find it is almost covered with the liver, lies contiguous to the spleen and pancreas-is possessed of a mufcular coat-has large trunks of blood veffels running thro' its fubiliances-lies close under the diaphragen-and fluids profulcly excreted into i s cavity, and perpetually prefling down the a ophagus-belides its lying over the aorta, or great artery of the machine-and thus the texture of the aliment is broken, the juices they afford fet at liberty, mixed with the gattric juices, or those of the flomach, thrown into a flate of fermentation, and changed into materials proper for torming nutritious fluids, as far as the first process extends -- which are father perfected when they pais into the inteffence, whose thenedure is fimilar to that of the stomech--ov being mixed with bile, panereacie, and intellinal fluids; converting them into a white liquor called chyle, which is abforbed by the licteal vetici, and there in their profage through the lymph tie glands to the receptaculum chyli further mixed and dilated with lymph; from this receptaculum the chyle is carried into the vena cava, thrown with the blood into the right anticle of the heart, theure into the right ventricle, which eights it into the lunes, by the pulmonary artery, in which organ it is further elaborated, thrown from thence into the left auricle and vetricle, and then into the round of the preater circulation, where it meets with freth attraion; and thus, in a little time, converted into a perfectly natritive flaid, which is applied to the particular parts for their imprort as was ted. But the floors h, belides being the infi. unent for performing the first process of digestion, is possessed of another material power, that of premoting f mpathic aftections in the conflictation. Thefe are fuch affections as appear

in parts far diffant from those, where the action of any substance cannot fuch distant affections, are locally acting—as sweat induced by antimonials taken upon the stomach, and only acting immediately on that organ—vomiting produced by a stone simulating the kidney, &c. but of this however we shall speak more at large, when we come to treat particularly on this subject—and now proceed to describe the intestines, and their uses—which have been divided, and are six in number, three small, and three large, viz. DUODENUM, so called from being twelve singer breadths long;—JEJUNUM, from being commonly found empty;—1LEUM, from being supported in part by the bones called

ilia-these form the three first, or small guts.

The DUODENUM is wider than the others—as it receives all the math expelled out of the stomach; which cannot be faid of the other guts, some part thereof being resorbed by the way, but chiefly on account of its having, for a great part of its length, from its origin progressively, no external tough covering from the mesentery to limit its size; it is likewise redder and more fielly than the jefunum and ileum, its muscular fibres being thicker and stronger. About its middle it receives the duct from the pancreas and liver, called pancreatic and biliary, which passing through its coat, obliquely open into it through one orifice; it makes feveral curvatures—the most considerable is that by which it ascends almost perpendicularly some way, soon after the two ducts open into its cavity, whereby the alimentary mash must needs be somewhat retarded in its passage through it; and the bile and pancreatic juice the more thoroughly mixed therewith, and with one another; in its beginning, its innermost coat is even, without wrinkles or furrows, fuch as are called valvalæ conniventes; but in its progress, and towards its terminations, it gets many fuch; which must further retard the progress of its contents; it is supplied with arteries chiefly from the same trunk that supplies the stomach, viz. the coliac; some lacteals, though but few acife from it.

The JEJUNUM.—It is not eafy to fix exactly the limits between the duodenum, nor ileum, and this gut: one way of diftinguishing the jejunum from the ileum, and perhaps the best, is to call all that jejunum, whose circumvolutions are above the ambilicus, or navel; and whose cavities are remarkably surnished with rugæ or valvulæ conniventes; this will make it about a third shorter than the ileum; it is narrower than the duodenum; its muscular sibres are thinner and weaker; it has some clusters of glands, called Peyer's, from their discoverer, and sends

forth numerous lacteals.

The ILEUM makes its windings chiefly below the umbilious;

the lateral foldings are supported by the offa ilia, above the thigh bones; its structure is much the same with that of the jejunum, except that in it the valvulæ conniventes decrease gradually, both in number and size, till at length they disappear. It hath more of Peyer's glands than the two former, especially about its termination, and sends forth extremely numerous lacteal vessels, the jejunum and it furnishing almost the whole of these canals: it is considerably longer than the jejunum, and is continued to the first of the thick guts called colon. Both the jejunum and ileure furnished with blood vessels from the mesenterica superior. The finall guts are the instruments immediately employed in making the chyle; whose coats are pretty much the same with those of the stomach.

The thick or large guts are also three in number—the C.E-

CUM, COLON, and RECTUM.

The ileum, the last of the small guts, terminating near the right kidney, opens into the colon; at its junction with the CÆ-CUM: this is a short wide sac about three inches long; its diameter about thrice as large as that of the small intestines; it is situated under the right kidney, and hid by the last convolution of the ileum, and has an appendix arising laterally from its bottom, called appendicula vermisormis, and is about the same length, but very slender, its diameter commonly not exceeding a quarter of an inch; its termination is shut, and it sluctuates loote.

The COLON from its origin makes a large turn upwards as far as the liver; then proceeds transversely to the left under the gall-bladder, which it touches under the bottom of the stomach, towards the spleen and left kidney, to which it is sastened; from thence passing, it makes several turns, the whole of them pretty much in the sigure of a capital S inverted, then terminates i the rectum; so that it surrounds, in a manner, the whole abdonner, sometimes ascending, tometimes descending; hence it happens that one stool is often succeeded by a second: by the contrivance likewise the sæces are longer kept, and hindered nom being every now and then indecently voided.

The RECTUM or STRAIGHT GUT, so called because its course, if the length of the body is regarded, is straight, chough it is bent backwards and forwards, humouring the direction of the os factum and os coccygis, bone, situated at the lower part of the back, begins where the last curvatures of the colon and,

and is terminated at the anus

It is worthy to be observed, that there is a remarkable contrivance at the junction of the ileum with the colon and crecura, by which the contents of the small intestines are allowed a free passage into the thick ones, but small regress or retropulsion from F 2

the latter into the former is effectually hindered and ftopped; this is called, valvuli Bauhini—Tulpii, or—Coli. Its effect in the animal eccounty is very falutary; for as the contents of the inteffines begin to putrify, and become feetid in the execum, by their being retarded there, both upon account of its capaciousness, and the almost perpendicular ascent of the colon, which is continued from it, if their repulsion into the ileum was not effectually hindered, the chyle in the small guts would be tainted with putridity, and even excrementitious matter thrown up at the mouth in obstinate costiveness; whereas not so much as a feed balitus, or the subtilest effluxia, can get that way in a state of health, though stools should be wanting ten or twelve days together, as happens in a common way to many.

at the fame time lower than the implantation of the ileum, the contents much, in some measure, sha nate there, especially as the colon from its origin mounts in a manner perpendicularly as sat the liver in the right hypochondre. By stagnating in so warm a place, their putridity ine cases there, and they acquire a sacal odour, which is not observed in the contents of the small guts; they likewise become left suid, and more consistent, by the restorption of the more liquid parts through the lactcals and other

bibulous veins, full continuing!

The vermicular appendix of the excum, by the numerous glandular outlets in its cavity, ferves, as well as a receptacle for the meconium in the focus, to lubricate the contents and membranes of the excum, into which it opens, as well as its own, in order to facilitate the propalition of the focal matter, and prevent its adhesion to the coats of the excum and its own, and where it must stagnate longer than it had stagnated hitherto any where in the intestinal tract. This use likewise takes place in the born anima; and besides in obstinate costiveness, by afforcing more room or stowage for the congested soces, it renders that complaint more easy to be borne, and less detrimental than it otherwise might be.

The execum and colon, befides having a fironger muscular coat than the small intestines, are surnished with three ligament-like bands, running length-ways on their outlide, dividing their surface into three positions, nearly equal. Though they appear like ligaments externally, they are made up in their inner structure of true muscular sibres, and strengthen the longitudinal sibres of the muscular coat; as they are longer than the proper coats, they

keep them drawn up into folds or wrinkles.

Through these intestines is propelled and urged on the remainder of the alimentary mash, after having undergone the action of the

the small guts: it consists of the earthy part of the materials taken in for food—of the membranous, sibrous, cartilaginous, and bony parts, that could not be sufficiently broken, and comminuted by the stomach or intestines so as to be taken up by the lacteal, and other absorbing vessels; the recrements of the bile, and

mucus furnished by Peyer's glands, all mixed together.

The causes of its propulsion are the same as in the small guts. viz. the action of respiration, and the perissaltic motion of the intestines themselves; but its course is slower than in the small guts, upon the account of its thicker confiltence, the afcent and windings of the colon, the delay it meets with from furrows within the tube, and the great stop from hard fæces, pent up in the rectum by the fphincler ani. The putridity is increased as it goes on; and as putrefaction generates air, the colon is commonly found distended with flatulency. The whole is more and more gradually exhausted and robbed of its most shid parts; and as what putrid miasmata are absorbed by the mesocolic veins, are determined finally into the vena portarum, to contribute towards the rancidity and putrescent disposition of the bile, so that even here the fæces, which are upon the point of being expelled out of the body altegether, are rendered useful and made subservient to the perfection of what is left behind.

The RECTUM begins in the pelvis where the last curvatures of the colon end; its muscular cost is much stronger than in the other intestines; the ligament-like bands, which in the cæcum and colon are collected into three portions, are spread equally over its surface, that no part of it may be weaker than another, lest it should give way in the effort of throwing out its contents. Into this intestine the fæcal matter, now consistent and shaped by the cylindrical cavity of the colon, especially in its last curvatures, where it is more uniform, and not so much distended by statulency, is received and accumulated therein, until, by its increased bulk, weight, and acrimony, it becomes troublesome, and would prove hurtful if long retained. Then it is expelled by the muscular powers surnished for that purpose—and strong powers there are, and admirably sitted to answer their end.

The INTESTINES are not left to move at random in the cavity of the abdomen, but artfully tied down by a membranous web, which prevents their circumvolutions from being entangled in each other—at the same time allowing them a gentle but limited motion. That part of it, which is connected with the small intestines, is called mesentery; the other part sastened to the colon, meso-colon. The rectum has a particular membrane al-

lotted to itself for fixing it.

This membranous web, for the mesentery, and meso-color

are one continued membrane, is a double production of the peritoneum, arifing from the vertebras of the loins; its two laminaare joined together by a cellular texture, in which the lacteals, blood vessel, &c. run, and the mesenteric glands are placed; when this double membrane hath arrived at the intestines, its lamina separate and quite surround them, thus surnishing their

external covering.

Upon a flight furvey of the uses produced by the mechanism of this part of the human machine, we cannot avoid being ftruck with wonder at its apparent simplicity, answering so many falutary purposes. If we trace the materials thrown into the flomach for our support through the intestinal tube, we must more and more admire the excellency of the divine workmanship; for as foon as we take our food it is received into a place, in all points calculated to render it fit for yielding its nutritious contents, by mixing with the fallvary and gastric juices-having its texture broken by mulcular action, not only of its own coats but the organs of respiration, and the quickly repeated shocks of the largest artery in the human machine, and from heat, increased from its fituation, foon thrown into the process of fermentation-by all which it is rendered fluxile, and passes, from the contrivance at the lower orifice of the stomach, slowly into the head of the first of the intestines-more capacious than its inferior part: it is there mixed with the bile, increased in its quantity in proportion only as it is wanted, by the very means of those things which require it, and pancreatic juice, calculated to convert the various portions into a nutritious fluid, by mixing the parts uniformly together, at the same time affording a stimulus to promote the propultive force of the intestines, and confequently increase the action of those vessels implanted in the sides of them to convey it through the mesenteric glands, where it receives more liquid, thinner than itself, to increase its fluxility into the receptacle appropriated for this purpole, and from thence into the blood-the faculent, or thicker part, being at the same time pushed forwards into the larger bowels, from whence there can happen no regurgitation of any, even of its finer parts, tho' delayed for some time, in order that a portion of its alkalescent or flimulating materials may be carried through the vena portarum, into the liver, to increase the acrimony of the bile; and as here the fæces acquire a greater hardness, consequently stand in need of a greater force to propel them forwards for their exit, the bowels in this place are polleffed of greater strength, and require a stronger stimulus to excite them to more powerful action, which the putrescent state of the sæces, acquired by delay, affords.

But

But besides the uses, herein specified, appropriated to the flomach and intestines, there is another very considerable one beflowed on them, particularly the former, by which very material affections are diffused to almost every part of the machine, and from which all the fensible parts of the body receive very peculiar and extraordinary advantages-I mean that of conveying action to different parts, and feeling the effects from these sympathetically and instantaneously; -for in many cases the stomach not only will experience perceptible effects locally of things received into its cavity, but communicate effect to different parts from that local action; nay, will produce them fometimes without the animal being fenfible of any action going forwards in that organ; and will itself be affected by some causes acting on other different parts, with the same unconsciousness of the locality of action, as well as fensible perception of such action-lo close an union is there between this organ, and the intestines, with various parts. the most distant as well as the more contiguous.

Opium, the active preparations of antimony, bark, and a number of those medicines called cordial and antispassocic, will disfuse their effects to the machine in general, and some particular parts, from what they exercise on the stomach, particularly itself. Hence will opium produce sleep—take off pain—promote perspiration or sweat—stop evacuations—alleviate and conquer some convulsive or spassocial affections.—Antimonials take off cuticular spassos, productive of sebrile affections, allay sebrile heat—promote insensible perspiration and sweat.—Bark increase the tone and strength of the systems—stop some evacuations—increase o-

thers-and give firmness to the muscular fibres.

Cordials invigorate the habit—increase the circulatory powers of the constitution—subdue lowners—fainting—warm the habit

-- and produce discharges from the skin.

Musk, atafortida, camphor—take off feveral convulsion affections—and all these things are done by the stomach, dissufficiently communicating effects to the various parts, whose office it is to perform their different operations, or to those where these mor-

bid effects may be manifested.

And it will also be affected by the sensations induced on different parts distant from itself. Spasmodic affections of the pores of the skin will produce sickness, nausea, vomiting—so will a stone in the kidney; violent blows on the head, or congestions on the brain, will occasion similar effects—and a variety of others might be adduced tending to prove the same points; but enough has been here advanced to prepare us for the suller discussion, and better understanding of these consequential particulars, when we come to speak more fully on them, as they occur repeatedly in

the

the course of the subsequent sheets.-We must now avert to the

The KIDNEYS are two pretty folid glandular bodies, fituated in the posterior part of the cavity of the abdomen, on each fide of the vertebre of the loins, between the last false rib, and the offa iliaca or hip bones. The right kidney lies under the great lobe of the liver, the left under the spleen, and therefore is higher; they are commonly about five inches long, about three broad. and one and a half thick; they are connected with the colon, ducdenum, liver, and friech, by the productions of the peritone-They are in shape not unlike a large bean, their circumference being convex on one fide, and concave on the other--the concave fide is turned towards the vertebræ, or back bone.

The kidneys are farrounded with a loofe cellular texture, in which there is much fat; this likewise invests the atteries and veins of the kidneys. The proper coat or membrane of the kidnevs is double, being composed of two laminæ, or layers---betwixt which there is a very fine cellular texture; the external laming is very thin, and only furrounds the body of the kidney; the internal one penetrates every where by numerous elongations into the fubiliance of the kidney, from which it cannot be feparated without tearing. The fubiliance of the kidneys is smooth, even, and uniform in adults .-- in young children divided in a man-

ner into feveral lobes and tubercles, or portions.

They are supplied with very large blood vessels---commonly called emulgents. The arteries arife from the great descending artery of the heart, nearly at right angles, one large trunk for each kidney; they run horizontally to the kidneys; and commonly without division --- and having fent off branches to the external furface of the kidney, the chief trunk enters into its body at its concave part, and is distributed by an infinite number of famil branches over all its tabilance. The veins running along with the atteries open in a large trunk from each kidney into the cava defeendens, or large defeending vein, near that part of the aurta where the arteries arife.

If the kidney is out through its convex, towards its concave part, into two equal portions, there appears a three-fold fubliance composing its body -- the exection part called cortical, round the whole circumference of the kidney, of a baight, whitith, gay colour ; -- a middle fubiliarce, called medullary, flriated, or flreaked, which terminates in the third, called pap flary, as it ends in eleven or twelve papilla, or nipoles, from the ends of which the urine drops through feveral finall holes in the cavity of the

The intimate structure of the kidney is entirely vascular --- the

fmall

finall arterial branches proceeding towards the papillæ are reflected back with ferpentine circumvolutions towards the furface of the kidney, then are bent again towards the papillæ; and, at length, fend off ftraight urinary ducts perforating the papillæ, and tending to the cavity of the kidney called pelvis, which is continued to the ureter, a velical which runs into the bladder.

The pelvis which is truly the head of the ureter, is the refervoir into which the urine drops from all the urinary does or tubuli. It is formed by the conductor of three large urinary canals, into which the final urinary dues open by holes laterally. This cavity, or pelvis, is firsitened at length into the ureter, one to each kidney; fo that the kidney may be imagined to be a vaficular congeries, confiding of arteries, uriniferous does, or those which convey urine, and veins, all running together over the fabilines of the kidney; the urinary daets opening at length into the great urinary refervoir, or pelvis, which terminates in the irreter. In the kidney there are no folicles between the last arterial branches, and the first urinary dues.

By this apparatus is the urine feparated in the substance of the kidney and sent into the ureter: the vast largeness of the emulgent arteries, and their proximity or nearness to the heart shew, that a great quantity of blood comes, in a small space of time, to the kidneys. Now the blood, which is newly come from the heart, must contain a great quantity of water, as, besides our drink, and the slomechic and intestinal juices, almost all the lymph of the body is poured upon the chyle, in its receptac'e in the lower belly, and the duct in the thorax, immediately before

it is mixed with the blood.

This water is impregnated with the faits of the blood, and fome animal oil, attenuated by the process of concoction, or digestion, and circulation, and rendered mifeible with water, and united with thele falts, together with fabile terrettrious or earthy parts, abraded from the infide of the animal tubes, conflitute the matter of urine. The diameters of the urinary ducts are adapted to admit thefe, and exclude, in a found flate, every thing groffer, as globules of blood, mere oil unattenuated, milk or chyle, and ferum or lymph, that is concrefcible by fire, urine being not fo; at the same time they transmit every thing that is thinner, if it arrives at the kidneys; fo that urine is the lixivium or lev, as it were, of the blood; by the separation of which it is edulcorated. Its faits and oils, which begin by repeated circulations to be more acrid than the tender vellels of the nerves and brain could bear, being walked off, and thrown out by the urinary palfages.

The URETERS, arising from the pelvis of the kidneys, run G down

down obliquely, and with a very small inflexion from the kidneys to the lateral parts of the inner and anterior side of the os facrum, or lower part of the back, and passing between the rectum and bladder, are inverted in the latter. Their structure is much a kin to that of the intestines, though the innermost coat is smooth and membranous, surnished with glands separating a mucilaginous liquor to defend it against the sharpness of the urine; they open into the neck of the bladder on each side, pene-

trating obliquely through its coats.

The BLADDER is a membranous and fleshy sac or bag, capable of contraction and dilatation, situated in the lower part of the abdomen or belly, immediately behind the joining of these bones, called osla pubis—and opposite to the beginning of the rectum. The figure of it is nearly a short oval—it is broader on the fore and back, than on the lateral parts, rounder above than below, when contracted; and broader above than below when distended. It is conceived, as divided into the body, neck, and bottom, into anterior and posterior, and into two lateral parts,

right and left.

The upper part is termed its bottom—its neck is part of its lower portion, with respect to its situation in the body. The bladder is not within the cavity of the peritoneum, that membrane only covering a part of its bottom or upper part, and coming down no farther anteriorly, but being reslected over the bladder, descends, covering it, as far down as the insertion of the

ureters.

The structure of this organ is nearly the same with that of the ureters, viz. besides the peritoneum, which covers but part of it, there is first an external cellular, under that a muscular coat; then a second cellular, then a nervous coat, and the innermost of all, a coat, in some measure, villous, furnished with glands which separate a mucilaginous liquor, necessary to defend it against the sharpness of the prime, which staguates within it often, for a very considerable time together.

The fibres in the mutcular coat run in all manner of directions, the outermost, and most remarkable feries is longitudinal, running from the neck upwards, and hath been thought to deferve a particular name—detrusor urine, expeller of urine—the others run obliquely, by different degrees of obliquity, and some altogether transverse: the neck, or under part of the bladder, is shut

by a muscular sphineter, like that of the anus.

The use of the bladder is to receive the urine which keeps constantly slowing from the urinary ducts and kidneys into the pelvis and ureter—and to retain it; that it may not indecently dribble, and diffus the functions of life. It seems to change

its

its nature no otherwise than by its being kept at rest in a warm place, thereby becoming more actid and stimulating. The urine is detained in the bladder by its sphincter, till by its distension, and the acrimony of the urine, either or both, we are made, uneasy and endeavour to expel it through the urethra—see page 53, 54, &c.—out of the body, which is done in the same manner as the sæces are thrust out—by the joint action of the diaphragm, and the muscles of the abdomen, assisted by the proper muscular coat of the bladder—and the pyramidial muscles, in a particular manner, favour the evacuation of the bladder, as they lie nearly over it.

The UTERUS, or WOMB, the habitation of the fætus, is situated between the urinary bladder, which is placed before it, and the intestinum rectum placed behind it. In a grown woman, not with child, it is about three singer breadths long, two in breadth, where it is broadest, and one in thickness; it is of the figure of a stat slask, convex before and behind, with edges inclining to sharp; its broadest extremity, which is called its bottom, is uppermost; and its small part, called its cervix or neck, is downwards---it is covered over with a production of the peritoneum, two portions of which, one on each side, sasten it to the sides of the pelvis, and are called the ligamenta lata, or broad ligaments.

The womb, when impregnated, bath but a very small cavity, its walls being very thick; the cavity is, in force measure, of a triangular shape, and it is lined with a very thin small membrane.

The womb is made up of a compacted collula tubulance, with a copious intermixture of blood veffels---there appears fomething like mufcular fibres amidst the cellular subulance, especially in women newly delivered, variously distributed in little circles.

The smaller and lower part of the womb, called its neck or cervix, abounds with callous rugæ, or folds; in the interspaces or spaces of which there are mucous sinuses, and here and there round vesicles full of a pellucid lymph, where it opens into the vagina, described below; it forms a round protuberance, not unlike the glans penis, called the os uteri, mouth of the womb, or os tincæ, because supposed, like a tench's mouth, divided by a rimæ or chink; on which protuberance there is plenty of a mucous, glutinous liquor, furnished by numerous sinuses there: this glutinous liquor serves to shut the os uteri in pregnancy.

The VAGINA, or canal of the uterus, is about fix or feven inches long; it is stretched from the mouth of the uterus to the pudendum, or external parts; it is of the same texture with the aterus; ceilular, with numerous blood vessels interwoven: its inner surface hath several ruge, or wrinkles; there are likewise

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pervous papillæ spread over it, which render it more sensible: its external orifice is furrounded with mufcular fibres, which confirict it.

The uterus, as hath been faid, is plentifully stored with blood veilels; they are furnished from the hypogattrics, by which, likewite, the inner and greater part of the vagina is supplied; its outer extremity is furrished from the external hæmorrhoidal.

The womb is adapted for the retention of the embryo, and its nourimnent, till the time of birth; and with the veffels of the vagina, for affording the monthly evacuation called menfes, or catamenia: 5 1 2 2002 11 21 22 22 23 24 24 25 25 25 25 25 25

But to the womb, for the purpole of promoting the generation of the human frecies there are united two other contrivances on each fide, the one called tube hallopianæ, Fallopian tubes, from the disoverer, Fallopius; the other, ovaria, from their re-

taining small round labiliances of the nature of eggs.

On each fide of the fundus uter the former open by two fmall orifices, which in a dead fubject, with difficulty admit a hog's briffle; from this finall opening each tube proceeds fomewhat transversely from the fundus towards the lateral parts of the pelvis, running between the duplicatures of the broad ligamentstheir diameters gradually augmenting to their extremities, where they are about a quarter of an inch wide; they run not ftraight from the womb, but wind in fuch a manner as to turn their wide, open extremities towards the ovaria; these extremities are jagged or scollopped; their external membrane, or covering, is from the peritoneum; their proper coat is plentifully furnished with veffels; there are some obscure, teeningly muscular, fibres interspersed, supported by a spongy cellular texture.

The OVARIA are two whitish, oval, flat bodies, fituated on the fides of the fundus uteri, to which they are joined by a kind of thort ligament, and inclosed, together with the tubæ Fallopinne, in the duplicature of the broad ligament—their substance is cellular and close, without fat-in it there are found, even in the ovaria of virgins, little round vehicles, called ova, or eggsof an uncertain number, commonly ten or twelve, full of a transparent coagulable fluid. These ova adhere closely to the texture

of the ovaria.

The OVARIA and TUBÆ Fallopianæ, are supplied with bloid-veffels from the spermatics, which have nearly the same origin in temales as in males-viz, the arteries of the aorta, near the rife of the emulgents, and the veins from the vena cava, and emulgent vein; these inosculate with the vessels that go to the uterus.

These also are supposed to perform particular functions in the Answered to be a series of a continue to a second

propagation and formation of our species---for the ovaria are squeezed by the edges of the tubes, disengage some of the ova, or eggs, which are impregnated, generally one, now and then two, three, or four, which are forced into the tubes and carried into the cavity of the uterus, where they fix themselves and are retained, and here the sectus is nourished to the proper time for its birth, which happens almost always in the space of nine months.

We might now, according to what we first proposed respecting the nature of our subject, sinish our anatomical account, as sufficient has been described to give a tolerable idea of constitutions in general; but as we also intend to shew the methods of preventing, or stopping the progress of particular complaints, local as well as general---we must, before we conclude, speak of the testes, urethra, and penis, the male parts of generation---as they are subject to some complaints which require early attention, by which several disagreeable consequences may be prevented.

The TESTES, or TESTICLES, with regard to their fituation, are sufficiently known; they are defended from cold, and

other injuries, by feveral membranes or coats.

The outer one is called the fcrotum-which is made up of the epidermis, or fearf-skin; - the skin, and immediately under the latter, a thick cellular texture, closely adhering to it, but without muscular fibres: next under this is what they call dartos, from its drawing up the skin. This coat envelopes each testis fingly; and by the junction of both together, where their fides are contiguous, make a partition or feptum between the two testes: it is likewise wholly cellular, without muscular fibres. and without fat. Under the dartos is the cremaster muscle, so called from suspending the testicles; there is one to each, and arife from the tendon of the obliquus descendens, oblique descending muscle of the lower belly; yet some fibres from the obliquus ascendens, oblique ascending muscle, the embracing the body of telles all around, serve to ruse it, and squeeze it in the act of generation. It is probable, that by the action of this mufcle, that the ferotum is gathered up into ruge by celd, as neither it, nor the dartos, are furnished with muscular fibres. Under this muscle is another coat of a loose cellular texture, called vaginalis, from forming, as it were, a kind of sheath to the testes, between which and the innermolt coat of all is a loofe space, in fome measure like that between the heart and pericardium, where a watery humour is contained - the last and innermost coat is called, from its whiteness, the albuginea; it is a thick, close, strongmembrane, immediately contiguous to the kernel of the telles;

the fubflance of which kernelly part is of a white colour, and from reason and analogy, it is concluded to be a continuation of the evanctiont branches of the actery called spermatic, from its supplying blood to the tofles, from whence the femen is fecreted. rolled up together. It is divided into more than twenty portions or clusters, separated from one another by as many partitions, which are productions of the albuginea. Each cluster, contained between two partitions, terminates in one duct; which ducts, above twenty in number, meeting together, form a kind of network adhering to the albuginea; every duct anaftomofing with those contiguous with it: from this duct arise ten or twelve other distinct ducks, which being separated, bent, or folded in a wonderful manner, make as many valcular cones, and by their uniting constitute the head or beginning of the epididymis, or fmall testicle. This fingle duct, variously bent and folded into ferpentine windings, fuch as there is no inflance of in any other part of the body, its windings being fallened together by cellular texture, makes a roundish body on the upper and posterior part of the tellicie, called epididymis, which, at length, terminates in a firm and tough cylindrical tube, called vas deferens.

The PENIS confifts of two bodies called corpora fpongiofa, or cavernofa, fpongy or cavernous bodies—part of the urethra, the glans or nut at its extremity, and its integuments. The integuments are, first the feart-skin, and true skin—which being folded back, and advering round the root of the glans, forms what is called the praptice, in the tride of which there are small glandular folliculi, which separate an only substance, ferving to make the praptice slip over the glans, and hinder them from growing together: this substance forms white slakes, and grows rancid and settle by long stag ation. In hot countries, it is more apt to corrupt and create inconveniences, than in temperate climates. This seems to have introduced circumcision, which was early practifed all over the East, and made a part of the Jewish religion. It is performed by cutting off the praptice quite round,

close by the root of the glans.

Under this common integument, the penis hath a proper coat covering all its body, from the glans exclusive backwards, and is

of a tough tendinous texture.

The IWO CORIORA SPONGIOSA arise from the os pubis on each side, and are continued to the root of the glans: they are so call d, because they are porous like sponge, and capable of being enlarged by a sluid penetrating their substance, chiefly in the living, by blood—or in the dead subject, by mercury or instation of air.

The URETHRA is a continuation of the neek of the bladder,

and runs in a furrow between the two corpora spongiosa to the extremity of the glans-it confifts of two thick spongy membranes, with a spon y texture between them-its beginning is covered by glans called PROSTATE-at its emersion from which, it becomes thicker and wider for the length of an inch, which thick part is called its bulb, from the refemblance it bears to a bulbous root; its inner membranes are pierced with many holes, here and there, through which, from a glandular apparatus in the fpongy fubiliance of the urethra, a mucilaginous liquor is furnish. ed, ferving to defend it against the acrimony of the urine. Befides these orifices, there are three other glands, two near the bulb of the urethra, one on each fide, about the fize of a pea; each of which fends off a long duct which opens into the urethra. and a third lingle one, less than the other two, at its bend under the os pubis-which fends off two ducts opening likewife into that canal. The first two are often found, but sometimes wanting or very small; the third is but soldom met with-the orifices are called by some lacunæ; these glands-Cowper's glands; they both, probably, serve for the same purpose.

The GLANS is a continuation of the spongy substance of the urethra, resected over its extremity, and expanded in the form we see: it is covered over with a thin epidermis or scarf-skin, under which there are numerous nervous papille, rendering it

extremely fensible.

The penis is plentifully supplied with blood vessels from the iliaes, both external and internal—its nerves come from those of the loins and facrum.

The use of the parts we have now described are for the proparation of our species, and some for the evacuation of urine.

We shall now conclude what we mean to advert to on the anatomical part of the machine, which we have rendered very eafy to be conceived, and think will be highly ufeful in affiding the uninformed readers to have just conceptions of what we mean by particular conflitutions in general, -what of general difeafes, and those called topical, or confined to some particular part, - and make them perceive the reason why such and such particular remedies or regimen should be employed in such and such particular cases, as come within the reach of every man's power-whether they aim at preventing the accession, or shortening the progress when begun; all which will be much better, and easier undertlood, by the sketch concise as it is, which has been given. For, certainly, laying down rules and directions for a man how to proceed in nervous cales, who has no idea of a nerve; in inflammetion, who knows not any thing of the vafeular fystem; in jaundice, flone, gravel, who is totally ignorant of the liver, floon, bladder,

bladder, kidneys, is as bad as leading a man blindfold through a country to discover its beauties, and give him a knowledge of its fituation, foil, produce, &c --- And to talk to a man of discovering the nature of his conflitution, and directing him to proceed agrecable to its dispession, without telling first of what it is composed, and making him sensible of the natural action of its component parts, would be as vague and ufeless as chopping logic to a ruffic -- it might confound, but could not inform : and it is for want of true knowledge in these particulars, that men, in other respects sensible, are so often heard delivering a profusion of nonfente on medical subjects. We therefore, in order to correct errors to often detrimental in their confequences, have prefumed to alter the general plan of publications of this fort, by thus beginning anatomically --- and shall now proceed to shew the different conflitutions .- what they are, and how they may be difcovered.

But, first, we must take notice of those parts which are called the moving powers, by which all constitutional action is promoted, and life preserved; and these are---the brain and nerves---the heart, and vascular system---the lungs and blood---and the muscular sibres.

Now in proportion to the different degrees of power which these possess in their natural state, so may constitutions in general be properly denominated.

The brain and nerves are confidered as the origin of incitability --- that is, motion produced in them by mental affections, and

lympathy.

The keart, vafoular fiften, and mufcular fibres, as the fountains of irritability---that is, motion produced by material flim alus.

The lungs and blood, the fource from whence all animal heat is derived—the universal stimulant of the human machine.

The muscles or muscular fibres, as the instruments of motion.

The stomach, intestines, and other viscera, as parts which may themselves be acted upon, and produce action of some of the general moving powers, and each on parts distant from them.

But we must observe, that with respect to the term, irritability ---it is by all authors equally applied to the nervous and vascular system, as well as muscular fibres, which we have shewn it necessary to alter, and consine it to the two last alone---because, independent of the nerves, they cannot be put into motion without some material stimulus locally applied to them---whilst the nerves may be brought into action by assections purely mental---the precise nature of whose action we cannot describe, and know them not but by essections. Besides, though they are in the habit united

united closely, they may exist independent of each other, and may be separately assected---shewing those assections belonging to themselves, without disturbing each other in many cases.

It was, therefore, unavoidable to separate the two---that conflitutions might be precisely and distinctively marked, where the
action of one or the other were most prevalent, and hence great
confusion prevented: add to this, it empowers us to account
more rationally for sympathetic affections, that is, where parts
distant from others, shew manifest signs of affection, though the
cause producing them has in some more distant part; or where
affections are suddenly produced in the habit, from some external appearances out of the habit, no master being at that time
inherent that occasions these affections from the locality of irritation. But we must allow also, that the nerves are capable of
being put into motion by material stimulus.

Hence then it is clear-that

The nerves are capable of being brought into action by mental affections, sympathy, and material filmulus, themselves abstractedly considered.

The valcular lystem, and mulcular fibres, under the same con-

fideration; only by mate ial stimulus.

That in their combined state, they mutually act on each other,

in many cases, or may be separately affected.

Now as the moving powers vary in their different degrees, and different combinations respecting those degrees, so do we conclude constitutions ought to be determined—and so ought different regimen, and applications of medicine, be advised—for preserving health, preventing, retarding the progress, and curing of diseases.

SECTION II.

On CONSTITUTIONS.

THERE is no subject on which we hear valetudinarians so much converse, as the particular nature of their constitutions; nor any on which they form such a variety of conjectures, at the same time to speak so positively, as it they understood what was meant by the term; nay, even are angry if you dispute their want of the most minute knowledge in this respect; and, indeed, it is almost held as an undoubted truth, that all men are the best judges of their own constitutions.

Notwithstanding, I can by no means allow this to be a truth, yet I can very readily conceive how they make the missake, and on what it is that they build such a conceit---they mean, that all

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men can tell what things best agree with them, which commonly ôc 1 cur, and which they have observed from repeated experiments; but this only comprehends the effect produced by different causes, and may affift in giving information to scientific men in investigating the precise nature of particular conflitations; but never can lead men, who have not made the medical art their fludy, to fufficient discoveries, for understanding the subject properly; a fubject which cannot be ferutinized too closely, as perhaps the · whole good to be derived from judicious affiltance upon that knowledge totally depends. We shall, therefore, go a little deeper into this matter, in order to lay a foundation for the application of those remedies, from whence every man may derive benefit, with fome degree of certainty, and after which all naturally thirst with the greatest avidity. But to make this business easy, we shall confine ourselves to the terms of which people in general make use, and endeavour to shew, what ought to be underflood by them, applied to the varieties prefenting themselves in different shapes in the human machine.

Mankind in general have furnished a great number of confli-

tutions --- under the following appellations:

1. Strong robust

10 Scorbutie

2. Weak, relaxed, delicate 11. Gouty

12. Rheumatic

4. Irritable
5. Torpid

13. Scrophulous
14. Flatulent

5. Torpid 6. Coslive

13. Plethoric, or full

7. Lax 8. Bilious 16. Hot 17. Cold

9. Plegmatic

18. Consumptive.

And thele have been deduced from the different appearances of the constitution -- the various effects to which they were prone; the humours confidered as inherent; and to the affections of particular parts, which they confantly, or on flight occasions, experience. But before any benefit can accrue in the application of remedies, or the manner pointed out by which mischief may be avoided from the fame fource, we should be acquainted with the corporeal construction and nature of their powers, which constitutes most of these deviations; and it is for want of this knowledge that felf created physicians, dollars of imagination, occasion very often a multiplicity of evils to their credulous patients, and to themselves, under many morbid circumstances -- prescrib. ing boldly the fame applications to conflictations diametrically opposite to each other, and which require very different materials to conquer the same complaint. For want of this knowledge, I have known coughs converted into pulmonary confumptions, and that not unfrequently; gout into apoplexy; coids, inducing flight febrile affections, into inflammatory fevers; for ettroats, early curable at first, made dangerous, and too often fatal---and many other deleterious transitions occur from the same fountain---for it is a certain fact, there is not any man that does not fancy himfelf, in several cases, a physician; and when, by his ignorance in advising improper remedies, he has created mischief, perhaps death, he contoles himself, and the unhappy friends, by saying, he did it for the best.

To guard, therefore, against the unfortunate consequences of these good actions, our duty calls upon us to specify the particular nature of these constitutions, that we may hereafter, when requisite, point out properly adapted remedies, that the patients may not fail in the attempt to alleviate, or cure, or prevent particular complaints.

In STRONG, ROBUST CONSTITUTIONS,

The mufcular stamina are firm, and well compacted; powerful and agile in motion; the pulse strong and full; the nerves equable and forcible in their influence; the circulation of the blood free, and the texture of that fluid possessed of great tenacity; the complexion healthful, and the whole habit in a state of strong activity.

In WEAK, RELAXED, and DELICATE,

The reverse of these occur-the muscular stamina are weak and loose, imbecile in motion, and soon wearied; the pulse small and quick; the nerves irregular and debilitated in their instruence; the circulation of the blood languid, its texture loose; the complection pale or fallow; and the whole habit in a state of debi-

lity.

In the NERVOUS—the conflitution is like the latter in a great degree, but the nerves are easily incitable from flight causes, excating spalmodic affections in different parts. People of this conflitution are generally timid—have great variability of spirits, and much subject to hysteric sits, cramps, and slying pains,—putting on the appearance of various complaints, according to the parts affected; the urine is commonly pale, sometimes made in small quantities, then becomes turbid—or in large quantities, then remains limpid. In these, therefore, the servous system is in such a state, so as to be quickly incitable, and readily and frequently thrown into morbid action.

In the IRRITABLE,

There is a strong propensity in the vascular system, and muscular sibres, to be thrown into quick states of contraction—the consticonflitution being in an intermediate state, between the robust and relaxed, and participating, in some degree, of the nervous. These are subject to have the circulation of the blood readily increased---sluthings in the sace--- are irascible, and easily moved to anger---they are soon heated by any stimulant taken internally.

Opposite to this constitution is the

TORPID.--In these the circulation of the blood is languid, seems rather to creep, or undulate, than circulate; the extremities are generally cold, and they seel, without any cause very often, internal oppression; dreading, and fearful of imaginary calamities---they are naturally inactive, and indolent, unless roused by some pleasurable pursuit; irresolute, mutable, and very often timid in the extreme, where any difficulties are to be surmounted, and the habit is generally costive.

The PHLEGMATIC.

In these the lungs, stomach, and intestines, are apt to be loaded with too great a quantity of viscid phlegm---from the digestive organs being in too weak a state, and wanting a due secretion of bile--the habit costive—in general cold—subject to chronic coughs, and expectoration of tough viscid phlegm—the circulation of the blood sluggish—the breathing laborious—the muscular sibres and vascular system torpid—though corpulent, they very often are gress, and frequently subject to adematous, or pasty swelling of the legs.

The PLETHORIC.

These are such whose constitutions is apt to breed a great quantity of blood, and are chiefly of the irritable class, more inclining to the robust and athletic. In these the digestive powers are good—the appetite sometimes voracious, son times moderate—frequently hamorrhages occur, and very often copious evacuations of different forts—also head-aches of the dull, heavy kind, attended with frequent giddiness—they are liable to become often drowsy and sleepy, and fond of that species of indulgence—and these generally arise from too great plenitude in the sangumary system.

The BILIOUS.

Are such as have a very copious secretion of bile, which is apt to collect in its repository the gall-bladder, nor be regularly excreted, or pass into the duodenum, or first intestine—by which means, stagnating there too long, perhaps from its viscidity, it acquires a degree of acrimony, which, when poured into the intestines, occasion bilious colic, cholera morbus, or a vomiting up

and purging of bile---bilious loofeness. In these, the complection has generally a sallowish cast; they complain frequently of bitterish taste in the mouth---are commonly costive, and have deep-coloured urine often, depositing a yellow sediment; their appetite is very variable, and their digestion, for the most part, weak.

The COSTIVE.

In these constitutions, some of them are naturally so inclined—but if not, it depends on particular states of the intestines, abdominal muscles, and the different viscera that pour forth their contents into the bowels; in these cases, the intestines are either in a state of too great torpidity, or there is a desciency of the internal shuid—pancreatic juice—or bile, which last may be too inert—or the abdominal muscles may be too relaxed—which occurs sometimes in women who have had several children.

The contrary of which happens in

The LAX;

for in them the intestines may be in too irritable a state---slightly moved, or may be too slippery, from an increased discharge of the pancreatic and intestinal glands---or the bile may be too acrimonious---or acrid humors may be too constantly poured into the intestines, and stimulate them to too strong and quick repeated action.

The FLATULENT

Are fuch as have too great a quantity of wind, or air, in the habit, in a loose unfixed state—particularly in the stomach and bowels, which is discoverable very often by slying, wandering pains, increased on warmth by its rarefaction—by distension of the stomach and intestines—a rumbling noise in the bowels—emissions of wind upwards and downwards—and these may occur from a weak digestion—allowing particular materials to emit their air, and the juices formed from them incapable of re-absorption—from their not being properly elaborated in the first passages: from being also too tight laced, women often induce this complaint—and by the too common and frequent use of warm glysters—by a relaxed state of the stomach and intestines—and by seeding constantly on statulent food, and keeping long safts.

The SCORBUTIC.

Such are indifcrimately fo fliled, who have the appearances of eruptions on the furface of the skin of different kinds—red pustulous pimples, nettle-rash, or dry scurfy scales—these truly indicate a prevalent acrimony in the habit of some fort; but the true scorbuic

fcorbatic conflitution is known by other marks—black, or livid, or yellow spots, on the surface of the skin—tender gums-bleeding on the slightest touch—sallow complection-rank set of sweats—loose texture of the sickly parts appearing pusty and slabby—and this owes its origin to the texture of the blood being in a broken or very loose state-whilst the former depends more upon acrid humors in the habit--obstructed, or rather diminished, perspiration--weak digestive powers, and sceding on unwhole-some food, or eating and drinking too freely and luxuriously.—. These, therefore, are better divided into acrimonious and scorbutic---the sirst where the acrimony of the sluids is indefinite and cannot be ranged under any known species.

The GOUTY

Are fuch as are troubled with flying pains, occupying chiefly the small joints of the hands and feet---and having regular sits of that disease---being subject frequently to indigestion, and to be seized with pains of the joint of the great toe---or having pains of the stomach and kidneys, alternating with those of the hands and the seet---subject, from the same cause, to be teased with pains in various parts before the sit of the gout has become regular, or has retroceded, or is mitplaced, owing often to debility of the active powers of the constitution---particularly the stomach and vascular system.

The RHEUMATIC.

These are such constitutions as are replete with rheumatic acrimony, which fixes itself in different parts of the machine, chiefly on the large joints, and runs along the course of the must-cles--or fixes itself also on the membranes of the muscles, sometimes affecting one, sometimes another---and sites constantly from place to place, assuming different appearances according to the peculiarity of the habit in which it resides---becoming in some acute and instammatory, particularly in the robust and athletic, who have strong stamina, and are readily irritable---in others, painful and chronic---in such whose constitutions are more debilitated or torpid.

The SCHROPHULOUS.

Are such, in which that taint called ferophula, or King's cyll is inherent, manifesting itself by glandular tumors, chiesly of an indelent kind, in the neck, for the most part, but also in other places of the body, where the lymphatic glands are dispersed, particularly in the lungs and mesentery—attacking the fair complectioned and delicate most commonly—shewing itself also by an enlargement of the upper lip and also nash, or sides of the nor-strils—and swelling of the belly—a preternatural slight heat generally

herally attending the whole habit---and febrile affections---and sometimes a short tickling cough.

The HOT and COLD

Depend upon the quantity of blood, in an healthful flate and different degrees of valcular action---if the habit is full, and the vessels are in a state of irritability, the constitution will be of the former class--if there is a paucity of that suid, or no redundancy, and the vascular system is in torpid state, whereby circulation is not duly performed, it will be of the latter---for where the blood is most supersubundant, and irritability of the vascular system great in degree there will always be the most heat, and vice verfa.

The CONSUMPTIVE.

These are generally such whose texture of solids are very delicate—the vascular system irritable, and some degree of acrimony in the humors—bale complessioned—narrow chested—long necked—subject to febrile heats, imitating hestic—cassly thrown into pulmonic harmorthages—and frequently assessed with slight tickling coughs—their teeth clear, with an appearance like transprency—their eyes often bright, sometimes towards evening languid—the ends of the singers rather bulbous—and the nails curved inwards, particularly when they approach near a morbid state.

We have here attempted to point out what is to be understood by the terms commonly made use of in applying them to particular constitutions; but we find that some have allusion to, and involve general ideas---whilst others are only consined to single or particular ones, and of which no use can be made, whilst in such a vague, and unsettled state---for in order to be of service, either in our preventive or curative plan, we must advert to those particulars which form constitutions in general---for it is by the regulating of them we must administer relief, when assisted with diseases to which they are prone---and prevent those whose seeds are disseminated through the babit from becoming active, and by that means constituting complaints to which they are specifically adapted---we, therefore, form constitutions into separate divisions---such as are simple and general---mixed and general---and such as are peculiar.

SIMPLE, and GENERAL are,

- 1. Strong and robust.
- 2. Nervous.
- 3. Irritable.

4. Torpid.

5. Weak, relaxed, and delicate.

But these may be combined---and form others, As STRONG---ROBUST---and Irritable,

Torpid, Nervous:

Though the first of these is what most commonly takes place.

The WEAK, DELICATE, and RELAXED---may also be subject to the same combinations---

Nervous, Irritable, Torpid,

Apt to take place in the order here fet down--with regard to the most general mode.

The MIXED and GENERAL --- are

1. Plethoric.

2. Hot.

3. Cold.

4. Consumptive.

5. Acrimonious.

For these may be combined with any of the former.—but depend upon the quantity and quality of the blood—and the greater or lets degree of the irritability, or incitability of the vascular or the nervous tystem.

The PECULIAR are,

The 1. Lax.

2. Costive.

3. Bilious.

4. Phlegmatic.

5. Scorbutic.

6. Gouty.

7. Rheumatic.

8. Scrophulous.

And g. Flatulent.

Any of which may be combined with those which are simple and mixed—as a constitution may be

Strong, rebuft, pletheric, hot, costive, gouty--- fo may the weak, relaxed, and delicate---though plethora is most generally the concomitant of the former.

It will be unnecessary to form any other combinations in this place, as the reader will very readily conceive them himself; we shall only, therefore, observe, that there are some which can never exist in a combined state, viz.

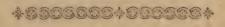
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The firong and robust, with the weak, relexed, and delicate--the bot and cold--the irritable and torpid---the has and costive.

Now as there is certainly fuch a diversity of conflitutions, many of them diametrically opposite to each other; and as there is also a variety of accidents and diseases which will affect the different conflictations in fimilar modes, how can it happen that one and the fame application shall be proper to all? For it is owing to the operations of the habit that diseases are preventedmade milder, or cured; and it is to our applications, that thefe falutary operations are often brought about where nature is defective-and, confequently, obliged to our assistance. We must. therefore, felect our remedies, and appropriate them to the particular constitutions; and let our directions be formed, with respect to diet and conduct, confident with the same constitutional points-and more especially where our attempts are levelled at the prevention of morbid attacks; in completing of which we are to aim at keeping the conflitution in a state of health, adequate to the powers with which it was originally endowed; fo that the common causes of diseases may not be enabled to produce their effects; which originate from different qualities and changes of the air; called conflitutions, climate, morbid effluvia, and intemperance or indifcretion; under which last we comprehend all those actions which, in their regulations, depend upon our own power, or are deduced from necessity.

Or, that such diseases, as are unavoidable, may be made to produce their influence on the machine in the most mild and gentle state; such as, small pox, measles, and various severs, and other complaints of the insessions or contagious class; or those which arise from an hereditary cause: in accomplishing which purpose, it will chiefly depend upon the proper use and application of what are called the NON-NATURALS; which, before we can be enabled to give proper directions in these points, we must examine, and show the peculiar influences they are capable

of producing in the habit.



SECTION III.

OF THE NON-NATURALS.

THE celebrated HOFFMAN, to whose labours the art of physic is much indebted for its improvement, says, "A

" phylician affifting in the curative operation of nature, should " use the milder and simple diætetic remedies, rather than those which are very active, and compounded of the pharmaceutic " class. By diætetic is to be understood, those materials which " are taken from such things, as every body requires for the or preservation of health and life, and which are received in the " fchools, under the denomination of non-naturals; for, inaf-" much, as from a wrong or inordinate use of these, the first 66 foundations and proximate origin of diseases arise, and also " have their violence increased; so nothing is better adapted to " expel or fubdue morbid affections of various kinds, than a proper use of them, with a regular mode of living, for without that, nature can do no good in healing, nor medicine produce " its defired effect. Whence the truth of GALEN's affertion, 66 That medicine has no efficacious remedy which can bring any permanent assistance; if the mode of living should resist it, " or should not act in conformity, and become an useful auxili-" ary." And he folemnly afferts, " That by diætetic remedies, " (in which change of air and climate, proper exercise, well " adapted meat and drink, also a prudent use of whey and mi-" neral waters, with abstinence and ease are to be included,) he " has performed fuch things in conquering obstinate chronic " diseases, which chiefly had their long and fixed feat in the weakened fystem of the nerves, as spasmodic, convulsive, " hypochondraic, and hysteric affections, which others had in " vain tried to accomplish by medicines elegantly compounded, " and judiciously administered, and he himself had expected 66 from medicines of great fame."

And certainly the doctrine is perfectly true-medicine can do very little in a variety of cases, without a strict adherence to a well-adapted regimen-and in preventing the machine from being afflicted with a diversity of maladies, nothing. The failure of all the arcana, spoken so highly of by a number of the ancients, as to be called panaceas—nay, the hands of Gods—indeed, those supported by names of no less consequence than FRIAR BACON, and LORD VERULAM, have proved how little dependence can be placed on the most extolled nostrums-whilst Carnaro, and feveral others of more modern date, have experimentally and incontestably proved what may be done in these points by a proper regimen, felected with judgment, and perfevered in with resolution-not only curing different obstinate difeases, which had refished the force of the art of medicine, in the hands of the most well-informed and fagacious practitioners, but infuring a continuance of health in a green old age. For Carnaro says, " At eighty-three I now enjoy a vigorous state

" I climb steep ascents with ease; and have lately wrote a co" I climb steep ascents with ease; and have lately wrote a co" medy full of innocent mirth and raillery; when I return home,
" either from private business or the Senate, I have eleven grand
" children, with whose education, amusement, and songs, I am
" greatly delighted; and I frequently sing with them, for my
" voice is clearer and stronger now, than ever it was in my
" youth. In short, I am in all respects happy, and quite a stran" ger to the doleful, morose, dying life, of lame, deaf, and

" blind old age --- worn out with intemperance."

Great as are these advantages --- how happy should it make us in our reflection, and how thankful to the benevolence of Providence ought we to be, that thefe, in a great measure, lay within our reach; for enviable as are the bleffings CORNARO enjoyed, he emerged from a state of constant torment, by a steady adherence to, and uniform perseverance in temperance, approportioning his regimen to the nature and exigencies of his constitution only---which is extremely worthy of imitation, as its confequences will amply reward for any mortifications we may have to encounter in the beginning. In order to qualify ourfelves for which, we must proceed to enquire into those sources from whence he drew fuch confolation --- and here we shall find, they all concentered in the proper use OF THE NON-NATU-RALS--- fo called, because they affect man without entering into his composition, or constituting his nature---but yet are so necessary, that he cannot live without them---we should rather term them necessaries -- as they are things natural in themselves, and to man's existence necessary, and unavoidable. However, as our business in this place is to give information on material things, we shall refrain from verbal investigation, as of little moment--and confider them in the following order --- flewing their manifest qualities, and explaining their perceptible effects. They have been divided into fix heads, viz.

1. Air.

2. Aliment.

3. Exercise and Rest.

4. Wakefulness and Sleep. 5. Repletion and Evacuation.

6. Passions, and Affections of the Mind.

But before we enter on a full discussion of these separately, we must observe, that the fix might, with great propriety, be reduced to sour---as exercise and rest produce pretty nearly similar effects on the constitution, as wakefulness and sleep---hence might these not improperly be reduced to one head, allowing

fomething more to exercise, than wakefulness, because of the muscular motion employed in the former.

As for repletion and evacuation, they, we shall find, more properly belong to the class of diseases, as these being too profuse or too sparing, constitute morbid affections of the habit.----However, we shall speak of each in their place, agreeable to their arrangement----and first of

AIR .-- And here we mean not to enter into philosophical or chemical fubtleties of the nature of this fluid, but confine ourfelves to that of atmosphere, whose different flates and changes produce perceptible effects on the conflictation- and which all ages have confidered as one of the occasional causes, and that very material, of health or difeates, according to its good or bad properties, affecting the body by infpiration, as well as its circumambiency. It is a fluid posselled of specific gravity, elasticity, and transparency, and compressible—it surrounds the earth, and when agitated, or driven in currents, forms wind: it is extremely fubtile, penetrates, and mingles with every part of the body, and by its elastic property, gives an intestine motion to all the fluids; and a lively foring to all the fibres, which promote circulation: it is never absolutely pure, but always mixed with heterogene. ous particles, and that air which we call pure, is fuch as is not overcharged with any steams.

It has its varieties, and differs with respect

To its weight or levity.

2. Heat or coldness.

3. Dryness or moisture.

And 4. Purity or impurity.

Now these properties of the air separately, or by their different combinations, produce many unpleasant effects on the constitution—give rise to and aggravate many symptoms in particular complaints—as well as are the origin of many diseases themselves.

1. For if the air is too beavy, it produces inflammatory affections of the membranes in the cheft and lungs, called pleurify and peripheumony, head-ach and giddinefs, &c. by prefling upon the furface of the body—obstructing the pores of the skin, hence impeding perspiration—accelerating the motion of the blood—occasioning it to crowd on the internal parts, and there circulate too rapidly—hence it is impelled too forcibly upon the lungs, and too copiously upon the brain—impeding, indeed, the natural functions of those organs which lie remote from the surface of the machine.

2. If it has too much levity, its elasticity, is increased, and hence produces, by vascular distension retarding the circulation of the blood, and by diminishing the resistance of the sluids contained in the pulmonary vessels, discharges of blood from the lungs—hysteric, and hypochendriacal affections—rheumatism—gout, &c.

3. Should the air he too bot, by rarefying the humors, and weakening the fibres, it increases the circulation, and augments perspiration, in which it is greatly aided by its additional stimulus on the vascular system—whence acrimony is induced in the

remaining fluids.

If too cold—local inflammations—as quinfeys, pleurifies, peripaeumonies, are brought on by over diffending the lungs from its gravity—increasing the tone of the resiels by constringing their sibres—condensing or thickening the humors—and lessening perspiration. And thould this state of the air suddenly succeed too long-continued heat—ardent, bilious, and other severs are the consequence—by producing its effects on the constitution, where the blood is in too raressed and acrimonious a state, and the humors participating of that acrimony with which the sanguinary mass is so replete.

4. Too dry an air shrivels up the folids, incrassates or thickens the sluids, and disposes to febrile affections—whilst too great moisture in that sluid, relaxes, and debilitates, lessens perspiration, renders the blood too watery—and by these means becomes extremely injurious, laying the soundation for coughs, allhams,

dropfies, intermittent and nervous diforders.

From the combination of some of these different qualities of the air, different assections found their origins.—Coldness and moisture are offensive, we find, to the constitution—but heat, moisture, and levity, are more pernicious, because these, acting together, supply the habit with a putrescent tendency, from whence many of our most dangerous complaints arise, as vomiting and purging of aerid bile, called cholera, bilious looseness, malignant fore-throats, and putrid severs.

5. The purity and impurity of the air depends upon the greater or finaller quantity of heterogeneous particles; these are particles which belong not to the air in its natural state, which float in it—hence it has, besides the above evident qualities, others which escape detection by the senses, though from their deletrious or mitchievous essents, sufficiently manifest—such are from intections of various kinds—as small pox, measles, scarlet sever, &c. malignant essential essential pox, measles, scarlet sever,

With regard, however, to the falubrity of the air, we must obferve—that is most falutary, which is pure, dry, and temperate, untainted with noxious damps, or putrid emuvie, from any cause whatever: but the furest mark of good air in any place, is from

the longevity of its inhabitants.

The evident marks of a bad, or infalubrious air in any house, are dampnedes, or discolouring of plaister or wainscoat;—mouldiness of bread, wetness of sponge, melting of sugar, rusting of brass or iron, and rotting of furniture:—and nothing is more conducive to render air noxious, load it with putrid steams, and breed bad distempers, than permitting common and crowded burial places to be within the precinct, of populous cities; or numbers of poor people living in uncleanliness, collected together in small houses, or narrow streets.

Valetudinarians experience the most agreeable sensations when the wind is westerly, though when at north, or north east, it is accounted bracing and healthful. Indeed to powerful an effect has the influence of the winds, agreeable to the quarters in which they were fixed, been supposed to have, that it has been afferted, our dispositions and tempers are greatly affected by them; -long centinued eafterly winds make people, who are naturally cheerful, very irritable and morofe. Nor does our tempers being affected by the different states of air, seem at all improbable, inasmuch as the body and mind are linked together in such close and intimate bonds of union, that they reciprocally affect each other: for as corporeal affections will, we know, alter the natural dispositions of people-making the placed and sweet tempered, often petulant and peevifh-the courageous, timid, fearful, and irresolute—the most patient, restless and unquiet—the lively and volatile, languid and desponding-and the most active, indolent; -fo may the air, as it conduces to throw the constitution into states nearly morbid, produce, in some degree, similar essectsas has been repeatedly experienced by men, not divelted of obfervation.

A west wind, in general, is esteemed the most salutary—then a north-west—after which succeeded, in degrees of salubrity, in the following order—east, north east, and last, south and southeast—and these may be accounted for, from the different qualities of the air, in proportion to the excess or desciency of heat, coldness, moisture, dryness, weight, or levity—or the different noxious or contrary combinations they bring along with them.

From what has been advanced, the fituation of our habitations will be a very material confideration, in conducing to the prefer-

vation of our health.

The most healthy exposure, we have been told, in any place fixed for residence, is to be found by cutting one of the trees near the place where the house is to be built, transversely with a saw, then closely to observe the rings which appear on the sur-

face

face of the fection; the fide of the tree on which the distance of the rings from each other is greatest, is the most healthful exposure. And this is obvious, because there has been the greatest accretion of matter by the healthful disposition of those parts so made, from always being blown upon by air from the most falubrious quarter, which it saces, and being hid from that which comes from the opposite, which seems to produce a different effect—and it is an admitted sast, that in all places, or parts of country, where vegetation is most vicorous, manifested by the strength and richness of the vegetable class; there will also animals enjoy the same consequences—hence should the windows of the house, all other circumstances being the same have a similar aspect.

That house is confidered as healthy which is lituated on rifing ground, or fide of a hill, and gravelly foil, because it is less exposed to damps and stagnant waters, in an open dry country; the rooms thould not be finall, but rather large—though not cold; the exposure prudently adapted to the nature of the climate, but to contrived, that it may be perflated by the east and north winds. whenever you please, which thould be at least once a day-to blow away animal fleams, and other noxions vapours ;-but the air of the bed-chamber, especially, should be pure and untainted. not near the ground, or any kind of dampnets. We may in general conclude, those ficuations are most falutary, where these different properties of the air commonly attend in degrees of mediocrity, theering in a medium between two extremes-nor will it be a small addition, if they are near a river or brook. whose thream is constantly running over a gravelly or fandy bottom -for standing water is always detrimental.

The country is more healthy than cities, or large towns, which are populous, from the greater purity of the air, if they are in fimilar fituations; but fome countries are extremely unwhole-fome, from the noxious vapours with which the air is impregnated—as those near the markes of Effex, fens of Cambridge-thire, or contiguous to lead mines, and finelting houses; for in grounds close to these two latter, animals which graze there are often destroyed, and vegetation greatly impeded: indeed the miners, smelters, and people in the vicinity, are subject to the dry or

convulave colic, and paralytic affections.

These are the principal effects of the air—we must proceed to

2. ALIMENT;

Under which term is comprehended all those esculent animals and vegetables, as well as liquids, by which we are supported, and which we use in common for the purpose of nutrition; and these these these these these

these are supposed to possess different degrees of nourishment, most of them having palled through some culinary process, more or less adapted to our nature, before they are received into the stomach, but which have particular portions proper to be affimilated, and form parts congenial with those of the human machine to which they are applied.

But before we enter on the particular nature of our various aliments, as we are writing to people who are not thoroughly convertant with the animal economy, it may be necessary to premise some account for their information, of the different processes nature has assixed towards the completion of this assimila-

tion.

As foon as the morfel is put into the mouth, it undergoes, by the teeth, and action of the muscles of the jaws, a considerable division, by the office of mastication or chewing, in order that its texture may be broken, and mixed with a due proportion of faliva, before it passes into the stomach-some more shuid being acquired in its descent; -when it arrives at the flomach, it there gets blended with the juices of that organ, supposed, and proved by Spallanzolli, to be a powerful folvent of our foed, and fome small portion of bile; and, during its refidence there, experiencing the effect of heat, and mulcular action, from the coats of the flomach, and motion of the diaphragm, lungs, intercoftal and abdominal mufcles, and the large blood-veffels and parts which lay contiguous; it thence passes gradually over the pylorus, or lower orifice of the flomach, and there meets with the bile from the call-bladder and liver in much larger quantity—the panereatic juice, or that of the fweet-bread, fimilar to the faliva, but rather more viscid-and the sluids separated by the intestines; and here it is subservient to the further action of the muscular coat of the intestines, and their peristaltic protion-churning, as it were, their contents and minutely mixing and blending together, the food taken in; and the different juices, which it has received in its flate of comminution and folution-from all which a milky juice is formed, called chyle-this is feparated from the fæculent fordes, and taken up by a fet of small absorbent vessels called lacteals-which open upon the inner coat of the intellines, and pass through the medium of the mesentery, which is the connecting membrane of the bowels, to the lower vertebræ of the loins, and there empty themselves into a vessel, called the thoracic duct. or receptaculum chyli-but there are, through the melentery, various glands interspersed, through which these lacteals pass, and where the chyle is mixed with a thin lymph feparated there for this purpole, in order to rend it more fluid. It is by these lacteal veffels, the motion of the intestines, and the force of the circusirculation unavoidably carried forward to the thoracic duct, as it cannot regurgitate, on account of the valves in various parts of thefe lacteals, which prevent its retroceeding motion-because they open only forwards-and are thut cloter by any fluid preffing backwards: thus then is the chyle thrown into the receptacle - which continues its course, to the subclavian vein, along the vertebra-into which it enters, and from whence the chyle is poured, and thence immediately thrown into the right auricle and venturale of the heart, where it mixes with the blood, and paties into the lungs-here it receives a confiderable trituration. receiving material alterations from thence, and from what it receives from the atmospheric air inspired into that organ; -- irong the lungs it returns through the pulmonary vein into the leic auticle of the heart, then into the ventricle-from whence it paties, mixed with the languinary mass, into the aerta, or large artery; and is diffused anivertally through the machine, where it is completed for the purposes of nutrition-being perfectly aftimilated into the nature of animal juices-and by its proper application to particular parts, wanting the addition of nutrient fluids, renews what has been abraded, and thus keeps the muchine in a flate adapted to the performance of its necessary functions, supplying portions proper for the requifite secretions. By these various means is this affimilating effect produced-a contrivance, which nothing but divine and beneficient Wifdom could be adequate to bestow-for let the animal be sed upon food, ever so various, and diffonant in their own peculiar properties, fill that power can convert materials fo dilagreeing to the advantage of the creature feeding upon them; may fome, fuch as goats and affes, will be nourished by the products of nature-which, to hories; oxen, theep, &c. prove the most fatal poison.

It is most probable that our first food was of the vegetable class, in the selection of which, man was directed by experience, led to it from the smell and taste; and the support and increase of thrength from thence consequent, would confirm their use. But beauts being troublesome to the cultivators of the earth, and vegetable diet not being proper to support sufficiently those who were employed in such labour, the self of animals made a necessary addition; of which we find a great variety at present are appropriated as common sood, and the catalogue of which luxury

hath, in no fmall degree, augmented.

Notwithstanding food is required to repair those particles which have been worn away, and distipated by perspiration, still a constant and quick repetition is also requisite; for the blood, from its own disposition apt to run into the nature of lixivial state, continually approaches near to putridinous acrimony, from

the circulatory motion and heat it perpetually fuffers, by which the animal humors are greatly disposed to putresaction.

But the blood also from perspirable matter paring off, acquires a disposition to congulate, and the restitution of the watery shuid; that its globules may be separated, and preserved in a state of suppidity and consequently the rest of the humors in a proper disposition for secretion.

These truths are demonstrable, not only by their causes, but the appearance of men and animals, who die of hunger—for it is common for them to have an assid, serid, offensive breath; their teeth loofened by corrosive faltness—violent pain in the stomach—acute severs, and delirium.

The nutritious part of the food, from animals, confifts of a gelitinous lymph;—from vegetables of a farinaceous substance—in which is a portion of vegetable acid, oil, and saccharine or superior matter; consequently, where the digestive powers are perfect, those which abound most with such matter in their respective.

pective classes, are the most nutritious.

But animal lymph, or the finest or most subtile part of the sluids, assorbed the quickest and strongest nourishment, as it is nearly elaborated into juices similar to our own; vegetables less so, as most of the esculent roots, plants, and fruits, are of an accident nature, sew are alcalescent, or replete with stimulant or aromatic particles; sew are possessed of gelatinous lymph, and only are nutritious from their farina; not many changing into those humors called indigenous, or natural, after having passed often through the course of circulation.

Notwithlanding which, it would be extremely improper for men to live alone on animal food; left a habit should be induced too full of blood, and too replete with putrescent juices; creating serocity, seurcy, fator, leproty, and all kinds of lixivial corruption; as in the case among the anthropophagi, or those who seed on human sless; all which mischness, by change of diet, and

living folely on vegetable food, are conquered.

Hence, in warm constitutions, hot climates and seasons of the year, men who are indisposed, as well as those in health, have a greater propensity to acescent vegetables, in proportion as the heat is more or less excessive; and hence men in very hot countries, commonly live on vegetables, seldom or not without danger, on animal diet; but in cold countries, the practice is safer, and more free from inconveniences: for this reason, bread, or farinous substances analogous to bread, is universally made use of; but we should observe, that vegetable food, besides its acescent property, is replete with fixed air.

From what has been faid of the nature of aliment, the utility of mixed diet, vegetable, and animal, will be obvious; as they

are correctors of each other; hence likewise will be allowed, the propriety of uniting acids, or four succes with high-scassoned dishes, or eating them with the fiesh of animals, whose juices tend to promote saline acrimony; as sish, wild fowl, &c. and we may deduce also the following conclusion:—That ANIMAL FOOD is most nutritious, beating, and stimulant, disposing to put essection.—VEGETABLE—legisnutritious, cocking, diducnt, acceptations by aperient, and corrective.

We must now advert to our third point-

3. EXERCISE and REST.

And when we speak of exercise, we include that of the mind, with the body; for these two are so intimately connected, that they produce a variety of essects one on the other.

To exercise, the ancients have, as well as the moderns, indeed ever attributed great utility, particularly in pursuing it with propriety, and have allowed, that great constitutional mischief may

be derived from its abuse or neglect.

It has with great justice been considered the sole infrument of the cure of many diseases, especially those of the glandular system; and SYDENHAM had so high an opinion of it, particularly riding on horseback, that he assume, "Mercury for the lues "venerea, nor the bark for intermittents, are not more certain "specifies, than riding on horseback for a consumption;" though here he seems to be senguine in his opinion, and has given too great latitude to the salutary essees of this remedy; for, certainly there are cases of consumption where riding becomes injurious —but the consideration of the subject belongs not to this place—we shall speak more minusely of it, when we come to give particular directions on that complaint.

Exercise confits in local motion of the body, and that motion more powerful of the limbs. It has been divided into ferious, and amuling: that belonging to labour is of the first classed, versions the second. GALEN hath written pretty copiously on the subject, and pointed out when it might be salabrious, and otherwise.

Severe exercife, when we exert quick motion, called gymna-flic, extenuates the body; the contrary renders it grofs; long continued, diflipates its moifture, and occasions drynefs: moderate makes it fat. However, well-regulated exercise, we find, in general, produces a freedom of circulation, affits digestion, promotes peripiration, and increases glandular secretion and exerction; by which mean such as is proportioned to the strength---carried beyond that, it occasions satigue, and becomes inurumental in producing those evil consequences, it otherwise is cal-

culated to remedy; for when too freely used, it is the source of lofs of appetite, great thirst, loathing of food, heat in the bowels, costiveness, chillness, rigors, and fainting. this must be the case, when we confider the effects produced in the fystem, by that which is judiciously adapted; as by increasing the ofcillatory motion of the veffels; that is, making their contractions and dilatations quicker, their contents are properly comminuted; all crudities defireyed -- the blood rendered bland and mild--- the fordes, or gross part, thrown out of the habit--the valentar fyftem firen thened, by which the nervous power becomes equable in its action, and, confequently, the folids of the animal firm, and the fluids pure.

The mind also has its influence, for though by its exercise it may be used: throught-will, if not kept within proper bounds, it brings on fatigue, and hebetator, or renders the moving powers of the machine inert and dead. Honce the exercise intended to promote and preferve health, foould be fach, as is united with mental amulement, rather than labour -- inalmuch as in the former, the mind is exhibitated; will communicate agreeable fon-

fations, and give fermnels to the nu ving powers.

REST is also necessary to relieve both the mind and body; fach as is sufficient to free the vehills from the frionger exertions of their elaffic force, recruit their thrength, and fet thinking faculties at rest from their lobour. But this, if carried to excels, becomes indolence, and less the foundation for those disorders, which arile from madicity -- and this brings on univerfal relaxation of the folid --- glandular clothin trions :-- enervates the fyftem, vitiates the humors, creates pains in the flomach, fatulencies, indigettions, &co. and renders the affections of hypochondrise people, and those who are gouty, in a great measure incurable.

From what has been advanced on this fubject, the fubiequent

deductions may be drawn---

That EXERCISE and REST may be confidered mental as well as corpored; the FIRST, in moderate, degrees, should be offeemed properly flimulant, a ferentberer of the fyflem, tromoting digistion, circulation, ferretion, and excretion; the SECOND, reflorative chieff, but both in extremes, debilitating.

The next of the non-naturals which prefent themfelves to our

confideration, are,

4. SLEEP and WAKEFULNESS.

And these produce nearly the same effects as the former --- only muscular force is less employed in wakefulness than exercise, and the animal receives most of his detriment from vascular action, and debilitaing the nervous influence; and by too much Seep the body is apt to become foonerrelaxed .- have the mind more

inert

inert, and, confequently, more liable to those complaints which arife from univerfal indolence---though thefe, in moderate degrees, are effentially necessary and falutary; for moderate fleep increases perspiration, promotes digestion, cherishes the body, and exhilirates the mind---whill the contrary extreme renders the habit phlegmatic and inactive, loads it with crude humors, renders the valcular fyitem fluggish and inert, disposes the folids to relaxation, impairs the memory, and flupefies the understanding :--on the other hand, excessive watching dislipates the flrength, produces fevers, dries and wastes the body, and anticipates old age. It has been thought that different ages of life, as well as confitutions, require more or less sleep --- for youth, or manhood, fix or feven hours; for infancy, or old age, eight or nine; but the infirm ought not to be limited, they should be permitted to indulge in fuch a measure, as is found from experience necessary for refreshment.

From the general chees produced by fleep and wakefulneft, they may be confidered as nearly similar to those of exercise and rest, and may also be concisely marked down---as simu and and fedetive---producing every good essentially their moderate use, and proper adaption; and a variety of mitchiefs by their abuse, or excess.

The next in order follows the fifth feries ---

5. REPLETION and EVACUATION.

But little can be faid relative to these in this place—for if what should be evacuated is retained too long, or in too great quantity; if what should be retained is evacuated too freely, they all constitute diseases—and will be treated under their respective breaks.

If performable matter puffs off not as it ought, but is able used—plethors, or too great plenitude, fevers, head-ach, giddiness, inflammations, &c. will enfue.

If what we ear lies too long on the flomach—indigedion, heart-burn, pains of the flomach, flatulence, &cc.

If there is any retention in the lungs -coaghs, lallacometico, although &c.

If in the liver-inflammation.

In the gall-bludder- - jaundice &c.

In the bowels-costiveness, and its consequences.

In the Mudder—cimenty in making water, influencetion. See. As the retained matters, from their delay, may acquire different properties according to their nature, and may courte different confident with their acrimony, vifeldity, quantity, or weight.

If

If too great a flux happens from the fallowry glands-it confli-

tutes a ptyalism, or falivation.

If from the liver, puncreas, or funct-break, or inteflines—cholera morbus, or vomiting and purging of bilious matter, aliments ry flux, white flux, loofeness.

If from the bladder - diabetes, or morbid estux of urine.

If from the genitals-feminal gleet.

If from the skin—morbid is eating, called ephidrofs, besides a variety of others, which may prounce general assections, either by sympathy or acquired actionny, as the nettle-rash, infantile hessic sever, &c. And these retentions or evacuations are to be remedied by such applications as the medic art assorts. Nor need these have been mentioned here, only to shew their consequence in the animal aconomy—as for the well being of the machine, it is necessary that parts where these retentions and evacuations occur, should perform their functions properly.—Of these nothing more can be said, we shall, therefore, advert to our last subject.

6. PASSIONS, and AFFECTIONS OF THE MIND.

Every man is truly fensible of the ill essects arising from giving way to those variety of assections which we call passions; and fatal experience often convinces and makes them lament being so prone to act obedient to their impulses. So strongly do they assect the human machine, that the most surprising consequences have been known to originate from these sources on the corporeal, or folid parts, as well as the system in general.

There are innumerable inflances of four creating a fedden and powerful action of the bowels and unimary pallages. Fright has put off a fit of an intermittent, when all remedies had failed; a piffol fired in the chamber of James the find had this effect, occasioning also a sudden action of the intestinal canal downwards; it has also given rife to an individuale tumor in a woman's breast; excess of joy has caused rainting and stupor; anger, induc-

ed apoplexy and phrenzy.

We cannot account for the precise mode in which these happen for a certainty. Hence, says a learned author, "We must "content ourselves with knowing they are positive facts, for, "till we are informed by what means the mind and body are "united, we cannot even form a probable conjecture, how the operations betwint them are performed."—In these cases, however, I think that the peculiar state of the constitution, with regard to its nervous incitability, vascular irritability or torpor, renders people more or less liable to feel these impressions, it not totally

totally, flill in a very great degree; for all those, which we call nervous, are more subject to manif it the action of these suiden or mental affections, than there who have an apparent firmnels of the nervous tythem, and whose versels are not so irritable as very readily to feel the impulies of their affections --- to me it has appeared to be univerfally the cafe.

However, with respect to the passions themselves, they may be medically reduced to two heads-volatile and faturnine; or

active and sedative.

But as difquilitions of this fort would lead us more into the field of speculative curiofity, than pradical utility, I shall content myfelf with taking a quotation or two from a judicious writer on this subject --- and from thence make the application to af-

certain the propriety of the division.

" Fear, grief, and those passions which partake of them --- as " envy, hatred, malice, revenge, and del; air, are known by exof perience to weaken the nerves; retard the circular motion of " the fluids; hinder perforation; impair digestion; and often to produce spaims, obstructions, and hypochondriacal ditor-" ders; and extreme terror has foractimes brought on death."

These I term- faturning or sedative -- because they affect the nervous fostem in such a manner, as to impede its influence in general-confequently, the action of all those parts that are dependent upon it, and where any of them feem to act fupernaturally, that action is occasioned more by irritability, or pre-dif-

polition of the part, than from any other caufe.

" Moderate joy or anger, on the other hand, and those passions and affections of the mind, which partake of their nature---44 as cheerfulness, contentment, hope, virtuous and mutual love, " and courage in doing good, invigorate the nerves, accelerate " the circulating fluids, promote perspiration, and assists digef-" tion :--- but violent anger, which differs from madness only in " duration, creates bilious, inflammatory, convultive, and fome-" times apoplectic ditorders, especially in hot temperaments---" and excels of joy dethroys fleep, and often has fatal and fudden effects."

These I term volatile or active—because they so affect the system of the nerves, that they increase its influence --- consequently the action of all the parts dependent upon them, which, whilst moderate, produces falutary effects; but when too violent, necettary deleterious or dangerous ones, from too great an excefs of action.

Hence, though we cannot influence the mind in the particular manner we with always, we thould endeavour to raife fuch fentations.

tions, as may be productive of those purposes, we are destrous

by other means of promoting.

Where the action of the valeular fystem is too violent, we should attempt to inculcate fear—where too torpid, theerfulness; for these may in some degree, have effects on the moving powers.

In treating of the non-naturals, though we have fooken of the felid aliments by which we are nourished, we have not faid any thing of the liquids we in common use, we must, therefore, in order to render our labour completely useful, advert to them, as much benefit is to be derived from a thorough knowledge of their properties and effects, and no small degrees of mischief avoided.

It is indeed a melancholy confideration to reflect, that, though health is the only foundation of all pleafure, and may, by easy methods, be preserved, men should neglect these means, which would enable them to pursue their daring Goddess through all her varied seenes of rational delight; but so it is, for notwith-sharding innumerable authors have written professedly on the diætetic regimen, from the unwillingness valetudinarians have in complying with rules, which lay a retraint upon the gratification of their appetites, shough calculated to preserve health, it has been too much neglected.

Election treats, Parish dinners, Session and City Feasts, and free Insurious indulgence, have numbered many with the dead, which proper abstinence might have preserved. However, as men will not refrain, but rather become slaves to excess, duty calls upon us to apprize them of their danger, at least to inform them in what things they may exceed with the least possible inconvenience. In addition, therefore, to what has been already advanced, it appears necessary to take a survey of the properties of those liquids we in common daink—which have been consi-

dered with regard to their powers---as either

DILUENT, SHEATHING, NUTRITIVE, STIMU-LANT, ANTISPASMODIC, or SEDATIVE, which in their

order we shall now attempt to explain.

1. The DILUTING LIQUORS—are all fuch, as added to the circulating mass of sluids, renders them more sluxile—by producing no other effects than what arise from mere mixture and divisibility of the integrant parts, and solution of the acrimonious and saline particles therein inherent.—Of this class therefore, we consider

Water, Small Beer and Tea.

The former of which appears to be the most eligible beverage,

as it is free from faline matter, and abounds not with air, in fach a proportion as might occasion fermentation: that is preferable which flows from mountains through far dy foils, is the coldest, limpid, most light, and insipid to the taste--a it is better calculated to afford a well-diluted chyle: but of all that which is distilled is the most eligible, as being thrown into a state of vapour by heat, it is divested almost totally of those earthy, betterogeneous materials with which other waters are apt to abound--hence, consequently, in its purest state.

This fluid, besides thinning the blood, and distolving the faline and scorbutic acrimony of the juices, renders the circulation easy and uniform by attenuating any viscidity; it is thains, by by its coolness, the quick motion, and intense heat of the humours, mothers, and molifies rigid sikres.—and if a glass of cold water is taken going to bed, it promotes perspiration, and often brings

on gentle sweats.

Good small beer has the same properties, but is more apt to occasion fermentation from the saccharine substances with which it is, though slightly, impregnated, and is more viscid---and from

these it may be considered as rather more nutritious.

Ten is also a proper diluent, and assists digestion, drank a moper time after dinner, where it does not disagree with the stomach, as in some peculiar constitutions, affecting the nerves of that organ, and the system of them in general, so as to occasion

fickness, tremors; and fainting:

2. Those liquids are called SHEATH NG which are mixed with mucilaginous substances, and produce their good effects, by involving the acrimo ious particles of the blood-increaling its viscolity, and preventing them from producing, or at least lettening their flimulating owers on the valcular sydem in general--or guarding the Homach and intestines from teeling the effects of any irritating materials which may be therein contained --- the principal of which are water mixed with council or wheat flour, called gruel-or with hartthorn thavings, talog, togie, tap oca--and boiled till the mucilaginous parts of these are dissolved, and then are confidered as emollients or demulcents- -or where fubstances are replete with oteaginous particles, fullering fimilar folution in the same menttruum---hence parrake they also of a nutritious property: here then to the list may chocolaic be added -fat broths -- milk mixed with fuel -- the last, a food not uncommon, and very uleful to fuch as are fur ject to condant diatrious, or loofeness, from acrimonious humours poured upon the bowels -which is improved by the addition of a little traich - and all these are considered much more natritious than those of the sormer class. 3: The

3. The NUTRITIOUS—are all fuch whose particles are copable of being assimilated to the nature of the animal juices by
the directive powers of the constitution, and partale of these properties in a greater or less degree, as their parts approach nearer
to, or are more distant from, the nature of our sluids, before they
are taken into the habit:—hence the most nutritious are—bees,
mutton, or veal tea, as replete only with the finer juices—four;
broths—the songs sometimes, in the first digestion, are more sitmulant, owing to the spices with which they are seasoned, consequently the most heating. Any of these above, however, made
from the sless of vegetable nature, and have their juices more pertectly elaborated, and less subject to promote viscidity, than those
from the younger species—and here may be enumerated those
made from hartshorn, or the jetty from that and isinglas.

The next is milk, which approaches very near to the nature of chyle, whild in the breaft of the animal, though more closely allied to its perfect juices. It is divisible into ferum or whey,

cream, curds-of which last is formed common cheefc.

Milk when cold lofes fome of its finer parts, and boiling robs it of more, by more copiously dislipating them: it is demulcent and nutritious, and partakes of a middle nature, between vegetable and animal, and is apt to curdle on the stomach, if it meets with a strong acid, too suddenly, or in many febrile diforders.

To fome conflictations it is perfectly agreeable, creating no uncafiness, be the stomach in what state it may; still in others is increases acidity in the first passages—it, in some, produces di archea—others it renders cossive; in some it occasions the headach; in others an uneasy sensation in the stomach, and pain—and many cannot enjoy the least ease, till it is ejected by vomiting: but where it agrees, no food can be more pleasant or salutary, where it does not increase corpulency. It has been the sood of several adults for a series of time—and those who refrain totally from animal tood, in this acquire an agreeable substitute.

The mill: of an healthful young woman is, to the human frame, infinitely the most preserable, so is that of any animal to those of their own species, as more completely finished to their particular nature.—For medical use next succeed, the milk which has the greatest affinity with that of woman—in which respect these are thought to pursue the following order—asses, mares, goats, that of sheep and cows.

The next which succeeds to this is-

Checolate -- though it partakes not of animal nature, fill from

hs being more replete with oil and faccharine fubflance, it is not only nutritious but demulcent --- though it is apt fometimes to fit uneafy on the flomach, if it is made too thick, or not well milled or groun !-- but more particularly when the nut is badly prepared, or when it is decayed, greafy, and rancid -- made thin, it is light: therefore when chocolate, from its richaels, creates any uneafy femiations on the stomach, a glass of water taken afterwards, by rendering it more dilute, will prove a remedy--but from its abounding with a quantity of oil, it requires the powers of digestion to be very active for its assimilation: hence. it should never be drank in too large quantities at a time. The least nutritious of this class are some of the sheathing liquids we before mentioned, as gruels, sugo, sulpp, tapioca-because they partake folely of vegetable nature, and are not fo replete with Gleaginous or faccharine fubitances, but are merely mucilaginous.

4. The STIMULANT are-

Coffee, wine, punch, perry, cyder, ardent spirits; taken in moderate quantities—in larger, they exert sedative effects perceptibly; but as we conclude they always exert this last effect, though in a degree only proportionate to the quantity taken, we think it right to take a view of them in their state of combination to avoid perplexity—and therefore we mark them down as

STIMULATING and SEDATIVE.

The first of which consist of such materials, as by their active powers, irritate the stomach, occasion warmth there, communicate it to the constitution in general, either by sympathy or vascular irritation--- increase the circulation of the blood for a time --exhibitate the spirits, increase perspiration, and invisorate the whole system---or, taken in large quantity, produce such essess sympathically upon the common sensorium, or force the blood so copiously and powerfully upon the brain, that it is incapable of seeling the effect of pain or rather uneasy sensation---indeed, sometimes this intensibility may be carried so far from this cause, that people become apopledic from the increased pressure on the brain---or from impeding sympathically, or mechanically, the power of nervous influence, expire.

Of this class, we consider

Coffice---though never attended with any of these violent confequences, mult be ranked under this head, as one of the slightest kind---for it is of a more heating nature than tea---gently stimulant, astringent, and resids putresaction; it also moderates alimentary fermentation---though, like tea, it is not agreeable to L 2

every constitution; as in some it will produce, particularly in those who are delicate, nervous symptoms: it decreases corpulency, and inferviceable to gross, phleomatic habits.

Dr. Callen, speaking of coffee and tea, says,

"Then citeets, in my opinion, are very much mixed, depending on the varm water;—the affiding digetion---relieving
the thomach from a load of aliment—from crudities—alleviating head achs arifing from them—promoting the fecretion
of arine, and, perhaps, perforation, may all fairly be attributed to the warm water. These are the chief virtues to be at-

" tributed to tea and coffee.

"The weakening the tone of the stomach by frequent use—
"and the system, in consequence, inducing tremors and spasmo"die assections, are the essects of the tea itself, though, in some
"means e. of the warm water." And, certainly, great mischus a e done by drinking them too hot—a very common practice by very desicate constitutions; for, by these means, the stom ch is brought into too great a state of relaxation—indigestion coemoned—clude chyle thrown too freely into the habit—obstructions formed in various parts, and a general state of debility, with a variety or painful consequences, occasioned through the whole system.

trine, spirits, ale, porter, cyder, perry, punch—may all come under the same description with regard to their powers, if we make some allowances with respect to a few trilling peculiarities which occur; for they all of them are stimulants to the stomach and system in general; possess some antispasmodic powers, and

increase circulation.

Spirits are more powerfully Rimulant than wine, less antispasmosic, and not disposed to run into the acetous fetimentation.

Wine is endowed with Rronger antilpalmodic effects; cycler and perry next; porter and ale the least. Wine is more powerfully stimulant than there; less disposed to acidity, if pure, than cycler and perry—and all of them free from that tenacity or viscidity in ale and porter.

Alle and perter are apt to load the stomach more, and require strong digestive powers to assimilate them: perter is supposed to possess stronger diviretic essets than ale—though they all have them in some degree—but amongst the spirits, that called Geneva shews them the most manifestly—of which the common fort, formed of ardent spirits, impregnated with terebinthinate substances, is the strongest—those impregnated with juniper bernies the weakest.

But, as we can never get wine, though fo valuable an article, whether confidered as a luxury, or a medicine, completely perfected,

fected, even that effeemed the most pure; and as it is made such general use of—it will be advantageous to examine the parts of which it consists, by which means, we shall be enabled to discover how its action may be varied; and, perhaps, the same holds good in all the rest, except spirits, though most probably in an inferior degree.

WINE has for its bass saccharine substances, of which it is formed by the process of fermentation, which converts the whole, not at once, but progressively, into a visious shuid; one part remains unaffimilated—one is assimilated—and one becomes acid.

Hence wine is composed of three parts,

Must, pure wine, and vinegar,

Must, HIPPOCRATES describes the juice of grapes, recently expressed, crude, statulent—only having one good property, it is aperient; and if it does not act as a laxative, it becomes so much the more noxious to the body. It is, perhaps, owing to this that new wines, or other sementable liquous, drank too early,

prove purgative as they generally do.

Some authors have faid, that must is, properly speaking, what is called / veet wines. It hould, with more propriety, be confide ed as lomething different, formed by the fermenting process; because, by fermentation of sugar on the stomach, a subtile stuid, called by the icholialts, gas fylvestre, and considered by them as a fixed, factitious, and fixable air is produced, which acts on the bile, pro es laxative, &c. But must alts in a less quantity than fugar, and therefore must be fomething altered from the faccharine fubiliance, now changed in its properties: - whatever it is, it destroys the tone of the stomach-difp fes it to spalmodic contractions, and, confequently, diffarbs and interrupts direction. If acidity is produced, it will join with the gas fylveftre in weakening the stomach---the acid thus formed will unite with the bile, produce a Strong Rimulus - thus occasion a flow of mere bile to the intestines. and car fe what is called the cholera morber, a copious evaluation of bile upwards and downwards, with violent spasmodic affections --but these effects are seldom produced to such a degree of vehe-

The active part of the juice of the grape is called ALCHO-HOL, or the spirit of wine, but weakened in its action in its compound state. This exerts inself on the nervous system, chiefly, if not altogether, by means of the stomach; bence it is stimulant, increasing circulation, and the force of the nervous power universally.

In large dofes—Alchohol Destroys the mobility of the MERVOUS POWER—WHENCE, FROM ITS STIMULANT AND SEDATIVE EFFECTS—confusion of ideas and delirium; STILL REPEAT-

ED, the rereous flow is arrefled -- recluntary and involuntary motions debroyed -- fleep, lethary, apoplesy, and death, are the confe-

quences.

In WINE, the effects are almost never so rapid, on account of their dilutestate, and small dotes in which the authohol is thrown in; on which account it proves only more thundant and exhilirating—it may produce Report, but as it is apt to be rejected by the stomach, and by other protests with which it is mixed, the powers of alchohol is moderated.

PUNCH, which is one an averagial wine, is less noxious than

alchohol and water, though more to than wine.

Though an acid is evolved, and enters into the composition of wine, and alchohol, still another, and more copious and separate, is formed—which is

VINEGAR.—This commonly contains fome fugar, may be lanative--bave the efficts of unconverted fweet wine--generate gas sylvefire, that subtile shuid; and, in short, have all the properties of fresh juices: when thoroughly converted, it determines other vegetable juices to accepted.--weakens the stomach--proves spasmodic---and has all the consequences of acids there generated.

But combined with wine, these qualities are more innocent; as the action of must, alchohol, and vinegar, separately may prevent each other's simple and deleterious essent; and also the water may, in the proportion in which it is mixed, have its essicacy in weakening the proporties of the other component parts.

CYDER and PERRY may be confidered as having the fame properties, though in much less degree than wine, with regard to their stimulant and sedative essects; but are more replete with accseency—generate too great degrees of statulency, run quicker into the acctous fermentation, and produce oneasy gripings, and more vainful sensations of the bowels, besides being more productive of calculous complaints, and the convulsive colic, or dry

belly-ach, terminating often in palfy.

From this review we can easily judge of the effects, whether advantageous or otherwise, which are likely to entue from wine, and also from the different compositions feld by our retail venders and wine merchants, under that title; which produce directed consequences to those who drink freely of it---laying the foundation for a variety of dargerous, lingering, and fatal complaints. In order to show which, we have been at the pains of going more minutely into this subject, that we might explain the particular parts of which wine was composed—declare the properties of them separately—manifest what were falutary, what otherwise; as also the necessity of a proper combination to form their utility; and hence be enabled to discover how the

personous compositions, fold under that appellation, must invariably produce their baneful effects; for thefe are made of the unfermented juices of some vegetables-sweet raisin wine, cyder, and British spirits; and this jumble is coloured with some ingredients agreeable to the wines intended to be imitated-with the addition, fometimes of a fmall portion of wine, and conflant-Iv of that noxicus meterial called fugar of lead, or lead infelf. forming this Jubdance by the union with a portion of acid they contain. Now compounds like their must be replete with those mitchiefs which we have engineered under mult and vincerr and others brought on by the feliative anxingent powers, occahoned by preparations of lead-conducing the allion of the flomuch and inteffines torpid, relaxing their organs, obstructing the exit of materials which ought to be thrown out of the bodyfilling the machine full of crude and acid humors-contaminating the whole mass of sluid-and preventing digestion, that parent of almost all chronic difeates. When we, therefore, speak of wine, we would not be under tood to mean these baneful compounds: but that which is pure, as can be imported, which MACKENZIE fays, " is an admirable liquor, and, used in mo-" derate quantity, answers many purposes of health; and beer, well brewed, light, of a proper fire gain and age, if we except water and wine, is, perhaps, the most ancient and best fort of 46 drink in common use among mankind."

But with respect to wine we may carry the matter further, for it is generally allowed to be the most agreeable and powerful cordial we can have recousse to in the last stage of some severs, completing of itself the cure. In low nervous, and putrid severs, it is beneficial throughout—when there appear symptoms of great debility—and it may be very often taken in large quantity, where the moving powers of the system abate much of their falutary action, and the suids seem to be running rapidly into a state of

putrescency.

How much, therefore, is it to be lamented, that we should be deprived of so valuable a liquor—replete with so many useful properties by the avarice of a set of beings, who are suffered to impose upon, and injure the public with impunity, and amass so tunes, by selling poisons for our destruction, instead of wine for our preservation and recovery or our health. For, I am persuaded, thousands have fallen devoted victims to this illicit and infamous practice. In lieu of these, where people are under the necessity of purchasing wines, rather than depend upon the worldly integrity of these dealers, I would recommend the wine properly made of raisins, or the fruits of our ewa country, they are instabled.

nitely less noxious, nay, indeed, may be made equally efficacious to the others in their purer flates.

5. The next which are to be spoken of, are those invested with

DILUTING and NUTRITIVE POWERS.

And these are chiese all those where water abounds, and are impregnated with sarinaceous, saccharine, and animal substances; in which will be included, grued and weak brothe-the latter of which, as also some degree of stimulus, adequate to the nature of animal food in its solid date, but weaker in degree: and these will be more or less diluting and nutritious, in proportion to the quantity of water and other substances they contain—the diluent property depending upon the former—the nutrities upon the latter; the particulars, relative to each of which, may be collected from what we have delivered in our first and third section on this subject:

6. Our last are,

The NUTRITIVE, STIMULANT, and SEDATIVE;

Such as, in some degree, possess these separate properties—which may be confined to

Ale and Porter—the stimulant and sedative powers of which have been spoken of when we treated of wine, of which these may be confidered as species, made of malt-though to porter there is a mixed and strong sedative power, inasmuch, as it appears to have some narcotic ingredient infused it, as the coculus indicus, the Indian berry, opium, or some materials of a similar nature. However, that they are very nutritious, needs no arguments to prove, we have only to depend upon facts; for it is observable, that all who drink copiously of these liquors, are corpulent, if they have powers of digestion adequate to their affimilation—common porters, coal-heavers, chairmen, &c. chiefly exist on this-drinking some gallons in a day; and indeed fuch, whose labour is very severe, require it: but in all such, it is necessary for their digettion to be extremely good, for these liquids abound with a great share of viscidity, which requires great constitutional firength, and itrong labour to fubdue. To delicate, relaxed habits, whose flomachs are weak, they create great load and oppression, much heat, and febrile affections temporarily induced.

What we have here delivered, perhaps may be by fome thought of too trivial consequence; and is by many too much, even in the practice of medicine, neglected—till will be found, on ex-

perience,



perionee, worthy of very close attention: for the knowledge from thence to be collected and properly applied, as we shall foon how occasion to shew, forms one part of med cine, comprehending that which is sheld—proph lactic or preventive—is, in meaning, telely curative, and should nall go hand in hand what the administration of the more active and powerful remedies is the cure of different funded ignorance in these points, or an injudicious digetetic course, will connate as remedies the most full transport of the one hand, whilst, on the or enan accura eknowledge, and proper combination, will greatly a lates their efficiers.

Having now laid down the principles on which we shall proceed through the course of the subsequent work, who of folely in that part which is intended as the preventive, and, in a gree measure, in the curative—we shall proceed to the former, as recapitulating some particulars, in order to form general rules for our proceedings, and render all our directions guly and inter-

ligible.

SECTION VI.

CONSTITUTIONS MORE PARTICULARLY SPECIFIED.

HBN speaking of constitution in our former Sections, we have enumerated that variety which is generally add to be understood by the chier or terms, and by what constitutional causes they were produced and have divided them into simple and general---mixed and general—and peculiar---as

The firong and robust,

Weak, relaxed, and delicate, Nervous, or incitable, Irritable,

Torpid,

And their combinations—that is, the union of two or more, as they happened to be possessed of incitability, irritability, and torpor; and these could only occur, with respect to the folicion but as the sluids also are concerned, it was necessary to take thereinto the accounts; we therefore conjoining them with the former; with respect to their quantities, qualities, and essentially with them MIXED—as when associated with

Plethora, Acrimony, Heat, Cold,

Or having Confumptive tendency. As for those we denomine

ed peculiar, they depended on accidential circumstances, as a review will convince us, and unnecessary to be taken into the general account, as to those alone must our modes of prevention, mitigation, or cure, be directed; for it is by regulating their operations alone, that we must in all cases expect to derive benefit. Some also of which may be omitted, as they deduce their origin from particular affections of the other in combined states, as the bot, cold, and consumptive.

We, therefore, shall arrange Constitutions under the following

heads.

A. The strong, and robust,

More or less irritable,
torpid,
incitable.

B. The weak, relaxed, and delicate.

More or less incitable,
irritable,
torpid.

Acrimonious.

With respect, then, to the first of these Constitutions; 1. The

strong, robust, and irritable.

They are subject to many inconveniences, chiefly from the rapidity of the blood's motion; hence are liable to fall into violent continued fevers, and inflammatory diforders. To prevent which' all excelles of hot or cold air should be avoided; stimulating aliment, high feafoned dishes, and such as are extremely nutritious; too fudden and violent exercises, repletion, and the more boisterous passions. They should observe temperance in all things, and especially keep free from immoderate drinking, and take care that none of the natural evacuations, should be checked, or obstructed, such as that of perspiration, urine, faces. They should have recourse to occasional bleeding, when the head feels loaded, giddy, or when they are drowfy, and prone to fleep, or fymptoms of general fullness are prevalent, but not use it unnecessarily, or too frequently, and empty the habit now and then by purgatives; they should drink diluting liquors, as water, or fuch where that is superabundant; in general be sparing of animal food, and rather out freely of vegetable diet, for these are apt to be plethoric, or loaded with too great a proportion of fanguinary mass: for such, a moderate, warm, and moist atmosphere is the most eligible situation; in fine, nothing should be rslowed them that will increase too powerfully the action of the living folids, or occasion too great an increase of the fluids. These Constitutions are in general warm. 2. The

2. The firong, robust, and torpid.

Where, though the stamina are firm in too great a proportion there is a defect of irritability the valcular system being in too torpid a state. These require not any particular attention, as from the want of proper fensibility they will not be expoted to feel particular changes arising from common causes, or such as would effect those which are more irritable. These constitutions bear all evacuations well, as they are not apt eafily to have their folids too much relaxed, but are rather prone to become plethoric, from indulgence, which they are apt to run into, from not feeling those effects, which people of different habits so frequently experience. They should endeavour to prevent an overfulness either by abstinence, or proper evacuations, which they bear in general without inconvenience, though bleeding in thete is less adviseable than purging, owing to the torpid state of the fystem; and, which, being neglected, should a plethora be the consequence, some of the internal parts of the habit, as the brains, lungs, &c. might be affected by dangerous, or at least troublefome oppressions, and we very often find men of this Constitution for want of timely care, and from indifcretions, afflicted with fudden vertigos or gidainess of the head, coughing, or spitting of blood, apoplexy, &c. and thefe are fometimes of a cold habit, though plethoric, and apt to fall into hypochond iac affections from visceral accumulations, and languid circulation.

3. The strong, robust, and incitable.

This Constitution sometimes, though more rarely occurs, and when it does, it generally is united with vafcular torpidity. In this there is too great incitability of the nervous fystem; and men of this habit are subject to a mixture of hysteric, and hypochondriac difeafes; irafcible at trifles, desponding nearly approaching to melancholy, they are apt to be afflicted with various spafmodic affections, particularly of the throat, intestines, and stomach; fometimes make profuse quantities of pale, simpid water; at others, small, but turbid and high coloured; they are frequently tormented with flatulence, and perplexed with whimfical and inconfistent ideas; the extremities are generally cold, and moving from place to place, or any motion almost is performed with languor-most of the evacuations are lessened, or irregularly performed; fleep is imperfect, they are troubled with fightful dreams, and are subject to the incubus, or what is called the night-mare, and all these are derived from the same constitutional fources, when torpor attends; for from the want of due power of the muscular fibres, the circulation of the blood is not carried on with full freedom to the extremities, the internal parts con-

M 2 fequently

I prently are loaded, hence in those parts there is an additional lacis and themclus, for the thindlus; always in proportion to the quantity of blood flowing to a part or collected in it, from the evolution of the heat, and the superabundance of acrimony, for the Mids of these constitutions generally abound with acrimy, particularly such as is productive of the nettle-rash; hence, then, the internal parts become more sensible to the nervous interest, consequently solicits it the more treely; and hence arises

: : appearances above enumerated

in these habits -frictions on the extremities, warm cloathing, " ... n bath, riding on horseback, are effentially necessary; gene-.... diet, wine, flimulating vegetables should be adhered to, i of eaty digestion, the mind should be kept perfectly at cafe, .. Hal company, change of icene, and fuch amusements as di-... the attention, produce a moderate degree of mental hilarity, ild be procured; and as for medicines, they flould be fuch, the lame time, that they allay the incitable power of the . was fiftem, definite a general warmth through the habit, and given occasionally, as asasætida, musk, vitriolic æther, cam-, ..., the all criates must be avoided, because they are apt to ... a the my cular fibres too torpid-in general chalybeates : be perfilled in, and Bath waters should be recommended. but where inflead of torpor, vafcular irritability is a concobefides being fubject to inflammatory complaints, and the debrile affect one from flight causes, they are subject to next (palmodic affections, fuch as those which are denomi-. Ity medical men, tetanic complaints, where, when spalms , the mufer on fibres remain in a fixed flate, not contracting laxing alerrarely, nor fugitive as in common convultions: and the to be feized with a locked jaw, and continued calar rig lity. In these constitutions, warm baths are pecufeful, gentle and conftant exercise, cooling diet, and coat lation with aqueous liquids, thin accident wines, milk . .. v getable diet, evacuations of all kinds thould be conffantly ald never be cottive; I have faid moderately, because in encouring to abate the irritability of the fythem, we must be each not to increase the incitability, which is apt to be the , ..., from evacuations too copious. Opiates are in these habits and, ufeful, and may be freely given under particular cir-beginning of this fection may be adhered to, taking especial . 10 avoid all mental uneafiness. These constitutions are apt to be plethoric and attended with heat.

What we have delivered appertains to those who are confidered

to possess strong degrees of muscular strongs, differently combined. We must now proceed to tech as have a WEAK, RELEALED, DELICATE HABIT, JOINED WITH TOO GREAT I CITABILITY. And this c roumstance generally occur in these habits, that they have also too great a share of irritability. There are subject to painful and f a module diseases; and the more delicate tex of this constitution are prone to hysteric affections from the relaxation and irritability of their habits. They also are constantly a tacked on every slight cold, with flow fevers, and have their digestive powers loaded with taburra, or different kinds of ill digested matters in the stomach and bowels,

making their way into the habit in this noxious form.

To these, a dry, clear air is effentially necessary, moderate exercife, particularly riding, cold bathing, and chalybeate waters; animal food easy of digestion, and free from fat, and a temperate ule of allringent wines. Vegetables should be administered sparingly, and those of the less flatulent kinds; food and liquids, viiced and tenacious, fuch as flour puddings, potatoes, oysters, frong founs, and milt liquors, ought to be prohibited. Every thing calculated to firengthen the tone of the fystem, and preserve it in an equable flate ought to be had recourse to, and all things likely to weaken it must be defisted from. Cheerful company and moderate amusements are serviceable, but pursued too freely, the reverle; for all fatigues, both of body and mind, are prejudical-the cultom of taking vegetable acids too copiously is and pernicious—hot tea, or any thing drank too warm -for thefe all contribute to relax and load the Homach and intestines, with foul, viscid materials, which produce therein internal stimulus, create flatulence, and communicate general irritability through the lystem. Blood should neve: be taken from people of this habit, but upon the most u gent occasion, and then only sparingly, in which cupping is preferable to the lancet; and it is fafer to take it away at two operations, than at one, fome little distance of time from each other, if more than fix onnces should be required. All fudden changes should be avoided with the utmost caution, either with refrect to cloathing or diet, the mind kept free from anxious ca es-hence watering places are useful, where thefe impregnated with chaly beate particles, or iron, may be drank; in fine, every thing ought to be advised, which, in a moderate degree, can exhilitate the spirits, and contribute to give fliggib to the folids. These constitutions are generally warm, subject to irregular sushing heats, and have for the most part no fmall degree of acrimony in the habit. But there are some who poliels too great a share of torpidity, and then they form that kind.

dular tumors, &c.

2. Where a WEAK, RELAXED HABIT IS JOINED WITH A DEFECT OF SENSIBILITY; and these are subject, not only to nervous affections, but to chronic and destructive diseases; for the circulation in all these is languid, and the absorbent system acts not with proper freedom. Hence will arise those complaints which depend on an acrimonious state of the humors, and an accumulation of the sluids in the whole, or particular parts of the system—as dropsy, jaundice, corpulency, scorbutic complaints, green-sickness so called, obstructed mentes, glan-

In these torpid habits, stimulants are useful, as also are evacuants; to these, a dry air and high situation are most suitable, with a generous diet of the more pungent class—such as the juices of the older animals. sish, mustard, horseradish, cabbage, and all of that class: brisk exercise on horseback, emetics, and frequent purging, in order to shake the vascular and glandulous system, prevent accumulations, remove obstructions, hinder the bile from stagnating, and the mucous sluids from collecting. All the natural evacuations should be kept free from suppression, to accomplish which, the system ought to be perpetually roused to action; hence indolence and indulgence in bed is to be particularly avoided; the thinner stimulating liquids, as white wine diluted with water, should be the common beverage, and the mind kept in a state of cheerful activity, free from all gloomy and desponding reslections.

Were the rules here laid down observed before our mass of humours had been contaminated by indiscretions and various species of debaucheries, which weaken and disturb the system in its performance of the proper offices alloted to her various parts, perhaps there would be little occasion to consider of those things, which are necessary to prevent diseases arising from a default of the natural humors of the machine; but as that is not the case, they call upon us for our consideration, as well as those which are fortuitously thrown into the Constitution. And those we

shall divide into such as are first,

NATURAL,

And those which are

ACCIDENTAL.

The natural fluids are divisible into

General,

or

Partial.

§. 1. In the first or general, the blood offends by its too great quantity

quantity or state of acrimony. From the too copious state of this fluid, a variety of complaints may arife, and, therefore, when fymptoms of oppression appear from this cause, which will generally manifest itself by languor, a sense of weight or fullness in the head, when rifing in the morning from bed, or in stooping, and fullness also of the pulse; abstinence, indulging less than ufual in fleep, increasing the natural evacuations, and using more exercise, will effectually reduce the body to its proper standard, if these things are had recourse to in due time, and persevered in for a proper period; the diet should be the least nutritious, more of the vegetable than animal class, the last eat of sparingly, confining themselves to one dish, and having it only once a day, and water should be the only beverage; but should inanition, or a want of a proper quantity of blood be induced by any cause, nutriment should then be given of the most quick and easy digestion-as teas, and broths made of the flesh of older animals, thin jellies, and the flesh of the younger animals, as chicken, rabbits, lamb, veal, &c. and in fuch quantities, though that can be readily converted into chyle-for it is a mistaken notion, to fuppose the larger the proportion of nutrition thrown into the habit, the fooner it will be recruited; the reverse will happen, for by these means the disestive powers being overloaded, will be weakened, and confequently even a fmall portion be prevent. ed from being properly affimilated, or reduced to the nature of our own healthful fluids, which they must be before they can answer the purposes for which they are intended-as on the contrary, it fo much is only given as those powers can conquer, they will gain fresh strength every day, by the application of that which has been converted into a nature peculiarly adapted to the end proposed; and this quantity may be repeated as often as the conflictution requires it. By this a further waste will be prevented, which may also in this view be affifted by the use of stomachies, which chiefly confift of bitters-as gentian, orange peel, q affia wood, flight chalybeates, gentle atomatics, and fuch like.

§. 2. But the blood may become acrimonious, and this acrimony may be confidered of different natures. They have been divided into acid, putrefeent and muriatic, to called nom MURIA brine, a liquor made of common falt, which this muriatic humor is supposed to resemble; but we shall not pretend to advance this as a certainty, but confine ourselves to the effects of some acrimony, which seems different from the two former.

The first then, or the acid, is supposed to arise from weak bowels, and particularly observeable in our infancile state, and, perhaps, the stomach and intestines are the only place where such acidities

acidities are to be found. To prevent which, we must endeavour to strengthen the digestive powers that they may make good chyle; he ce after clearing the bowels with the ful polycorest, or small doses of calomel, and rhubard and gentle emetics, slight dote of chalybeares may be had recourse to, mixt with rhubarb to keep the bowels gently open—weak broth should be given once or twice a day—panada, with a small portion of some agreeable aromatic well boiled; and such things as have in the melves the least tendency to acidity; frictions on the abdomen or lower belly, stomach, legs, and feet, with smart exercise, will be highly ferviceable—as these will invigorate the system, promote a brisk circulation, and increase the action of those organs intended to pro-

mote the formation of good chyle.

The fecond, or putrefcent; where the fluids tend to a flate of putridity, shews itself generally by the face being puffed up, as it were, and tinged with a huc, fomewhat approaching to livid; the breath offentive; the gum spongy, and bloeding on the flightest touch, nav, fometimes voluntarily :- here fresh air, austere wines, fuch as give a fenfe of longuncle, or aftringency to the tafte, vegetable diet, ripe fruit, water impregnated with fivable air, fmart motion, and corrobocating bitters, with abAinence from animal food, particularly him, promife fair for thopping the effects, which might otherwife arife, by the king the putrefactive disposition, and meliorating the sluid; though, warm situations fhould in this cafe be par icularly avoided -and living in close places much crowded with inhabitants-for nothing conduces more to bring on, and increde fuch a flace of the conditution as thefe -by relaxing the folids, and farmthing a conflant fupply of putrescent effluvia.

The third, or what has been filled the murialic, is indicated by hot eruptions, which nich much, attended with ancommon thick and fluthing heats; to alleviate which, the fur marcoust faline waters are recommended, particularly the be of illurrougate, Thorp-Arch, and those of Modat, avoiding at the fine time ail I reating, acrid food-inch as mutte, high tenfoned dishes, and nich Imps—whey and milk in these cases are extremely beneficial, the SCORBUTIC JUICES, made of the frice of garden fearvy grafs, water creffes, both exprehed from fresh borbs, and of Serille oranges, two piacs, fpirituous numeg water, half a punt, thefe are to be mixed together, and after they have food till the feces have sublided, the clear liquor must be poured off for ule.—Of these juices, from two table-spoonssed to cight, may be taken two or three times a day; or a DECOUTION OF THE WOODS, made of guiacum, or ligaum vitee faw-duft, three ounces; raifins of the fun, two ounces; faffifras words fo aced liquorice fliced, each an ounce; water, ten pinta: ... the guaiaeum and raisins are to be bolled over a gentle fice, to ile confumption of one half, adding towards the end the fallafras and and liquorice; It sain of the Inquor, and having faffered is to reft for some time, pour off and is clear—a quarter of a pint of this may be taken two or three times a day, and all fuch as are diuretic, and cooling; hence fome of those waters are of service, which abound with faline fubftances, that are gently aperient, and move the urinary parlages - as Esjim waters, those of Chelt nbam, Stoke, or jeff p waters, their of Paneras, Holt in Wiltshire, Stretham, and some others.

All colmetics and recellent lotions are dangerous; for if the acrimony cannot be corrected or carried out of the habit, its most falutary fitua ion must be external; and, perhaps, it may be the only means which nature has to unload the habit, or prevent the deleterious effects, which would be occasioned, were any of the more noble organs subjected to the depredation of humors so inveterate. To valecudinarians of this description a cool air should be recommended, and fummer fituation near the fea-coast;all falted meats and fith should be prohibited; the body kept cool by faline aperients, and the mind unrulled by violent pafitons, and all excess in drinking refrained.

There constitute the first clais of natural humors—the second are the

PIRTIAL.—Where they only affect some parts of the confitution, and are not diffusive, but produce particular difeasis from a positive species of morbific matter; and these are either generated in he habit apontaneously, or feets to affe from errors 1 diet, indulgments, or irregularities with refu & to the manatement of the animal economy; but thele, if incapable of being eradicated, may be alleviated, and in some degree prevent-

The FIRST of which we hall mention is the gout; respecting which, though to painful, to dangerous and common a to dady, I believe little doubt remains but it may be weakened in its artack, even in those who have been long to jest to it, by tenperance; that is, by properly regulating constitutions confiftent with the powers they policis; and I am hearly perfueded it may be prevented from returning in the younger class of mankind, would they, on its first oasit, prescribe to themselves and follow fuch regulations, as experience has, in many fimilar cafes, proved to be conducive to these ends.

Adhering firielly to a milk diet has in many cases but a slop to returns of the gout; and regularity of living, with prope exercite-abile ning from wine and high-featoned dilhes, pickies, and other incentives, that stimulate the appetite, and occasion men to overload, and weaken the tone of the stomach, and digestive powers, have rendered this malady infinitely more mild in its paroxysms. Men, with this propensity to the gout, should avoid every excess that has the least tendency to reduce the habit below the proper standard of health—either in eating, drinking, or venereal enjoyments: for it is by the slavish and constant purfuit of these particulars, and the great induspence which they allow themselves, that we see so many martyrs to gouty devaltation.

Early rifing, moderate exercife, and that daily; bland mild food: abflinence from inebriating liquids, or a very moderate use of them, as also of concubinage, will ever be succeeded with such confequences, as will amply repay as for philosophic forbenance.—People of this constitution ought to refrain from weighty cares—the labours of the mind—much thought, anxiety, and solicitude: they should avoidall vexation, particularly as no thing disposes more to bring on sits of the gout, by occasioning crudity, and indigestion, from weakening and rendering the action of the stomach too torpid.

Various modes have been recommended for preventing the accelions of the gont—but what feems to have gained credit from the experience of feveral intelligent men, is the use of falphur; of which a drink is made by impregnating water with a proper proportion of it, and this has proved falutary, in not only mitigating fits of the gout, but some say of totally preventing their return. Indeed if we consider the action of sulphur on the habit, we shall not be averse to think sayourably of its asse.

Dr. CULLEN fays, "It is certainly a mild and fafe cathartic, never producing any confiderable evacuation, but keeping
up the natural excretion by the intestines, without any irritating or heating esset."—And Dr. LEWIS—"That pure sulphur, in doses of from ten grains to a dram or more, gently
loosens the belly, and promotes perspiration; it seems to pass
through the whole habit, and manifessly transpires through
the skin, as appears from the sulphureous smell of those who
have taken it, and silver being stained in their pockets
to a blackish hue, as by the vapour of sulphureous solutions."

But we must observe in this, as in every other constitution, we must be directed in our specific course by the particular nature of the habit, according as it tends to one or the other, which we have before specified. Hence in this case we must sometimes enforce an abstenious regimen altogether from animal sood—

fome-

cometimes allow its moderate use, proportioning the degrees of exercise to the degrees of tone, or strength of the system, always prohibiting the use of wines and other fermented liquors, except in cases of great debility, or long habit; and preferving the strength of the stomach and digestive organs.

ad. RHEUMATIC.—In these, the same rules will hold good as in the former, and not be attended with dislimitar effects, and those very often more certain; for it has sometimes been prevented by wearing a stannel shirt, which keeps up an increased degree of intensible perspiration, and using the cold bath or sea-

bathing without interruption.

gd. That difease, which in inland countries we seldom or never see affect the natives, called the PUTRID SCURVY—by exercise, warm cloathing, drinking accident wines, and living chiefly on fresh vegetables, or eating freely of them, will be prevented. It generally affects those who live on sea-coasts, and feed on fish, and sailors:—hence sour croat has been considered as preventive. I have heard captains of some ships say, great benefit has been derived from vinegar, and they give it the preference to lemon or lime juice—why, I know not, unless from the saccharine substance in vinegar, a degree of fermentation takes place, and affords some portion of fixable air, from whence possibly some antiputrescent effects may be produced.

4th. Where we have reason to fear a fcrophulou; taint, or the feeds of that disease called the king's evil predominate in the habit—those means exerted, which give strength to the solids, begun in time, bid fair to act as preventive in this case; at least hinder the offensive matter from producing its unhappy effects in

a violent degree.

Living in a free country air, particularly on the fea-coast, taking exercise and nutritious diet; moderate use of wine and a course of gentle chalybeates, or drinking the chalybeate waters

once or twice a year, might answer the intention.

5th. Where there is a redundancy of bile, or a collection, those conflictations, we have faid, are called bilious, and have often a bitter taste in the mouth. The stomach and bowels of such should be always kept clear, by taking aperient medicines every now and then, and such as are not likely to leave the body coltive after the operation. In these has its, aloes and toap are aleful, castor oil, saline purgatives—as Glauber or Lusom salt, or the natural purging waters—as those of Thorp-Arch—Northaw—Colchester—Dulwich—Epsom—Action—and Cheltenham—Fat and oily substances should be sparingly, if at all thrown into the habit. Exercise should be pertisted in, and some species of

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vegetable for a preferred to any other, as the dandelien—endive—and fuch like

6 h. The sto nach and bowels are apt to be loaded with different kinds of unknown materials, called faburra—and these are either acid, rancid, or vifeid. In all constitutions that have one or more of these particular tendencies, they generally arise from weak, digethre powers. Emetics and purgatives are now and then to be preserial on that account, and those things which give

force to the weakened organ.

little acad is most prevalent, which will discover itself by four blehings and heart-burn—animal diet is most proper; crude regetables, male, butter, and other oleaginous substances should be for-born, and also termented liquors; the most proper drink is water alone, or warmed with a little ardent fririts, or baving ginger matted in it—nonachie bitters with clixir of vitiol, or link; absorbent proders, as harthern burnt and prepared, chalk, the ment, are uteful for immediate relief. In all relaxations of the stomach we much aim at strengthening its tone, preventing termentation, and promoting the co-pulsion of its contents;—the alkaline waters, as the sent Upminiter, Brentwood, Seltzer, and Tilbury, may be recommended.

If the conditions the note of ran id, or occasion a putrid, offenfier 1.510, cancel miderous, like that of bad eggs, and ransea attend, with the throwing up of liquids, that will blaze in the fire like oil, a det containing a large proportion of accident vegetaides will be proper, with a very facing quantity of butter and oil—made while thould not be allowed, nor rich sauces, or much givey—an irun, such as are ripe may be indulged in, and water

is generally the properest liquor to drink.

But if the reduct mould be vifeid and ropy, that is there general—face thing, as will affilt in dividing in carrying it off, are the me chapter—as calonel and rhubarb occasionally, or alocate purges—clair proprietatis with bitters, or pitale Rush with Venter toap—exercise, chiefly riding, is necessary, and all things which have in their own nature too tenacious a vifeidity, such as puddings, thick gracks, potatoes, should be avoided—the field or juices of other animals are presented to those of the younger fort—and also a realment of the warmer class, mustard, horse tandish, water cresses, &c.

Harrowgate---and Llandridod, will always promote fome good purpote in this respect, without being in others detrimental.

But sometimes the lungs will be subject to be loaded with viscid, tough kind of phleun, in order to prevent which, the mode above laid down will be highly conducive, and what will contribute much towards being more successful---are emetics taken occasionally.

\$. 3. Befides what we have above described, there are fluids which get into the habit from contagion or infection, and will produce disease by the action of their morbid matter, if not prevented, before they have manifested their effect---and these we call

ACCIDENTAL.—The FIRST of which we shall take notice of, is that creative of the lues venerea-or pos ; and where there is strong surpicion of having had commerce with an infected object, the malady may be prevented by fuch applications, as will wash off all the natural mucus of the parts, and thereby carry away the virus, or venercal poison, which lies entangled in it: and these are solutions of the caustic alkali; fost or common soap. corrofive fublimate, &c. in water, with which the external parts should be well washed, as soon as may be after coition, at least within the space of fix or eight hours; and some should be injected within the urethra; but great care should be taken not to make the folution too firong, left the parts thould be exceriated, and inflammation brought on by that me ans, with its painful and ditagreeable confequences. It will be fufficient if the folution is of fach a thrength only, as will give a tlight feniation of pungency on the tongue or infide of the lips.

The SECOND—the poison of the viper.—The ill consequences generally attending the bite of vipers, by which means they pour their virus into the wound, and so communicate it to the habit, have been prevented, it has been afferted, by the immediate application of the fat of that reptile to the wounded part.—It was, in the more carly periods, confidered as a specific in that case—but olive oil has been known to a fiver the purpose full as effectually.—These means may also be useful in abating the pain originating from the stings of was, or scales, before the skin is raised into blusters; but the more effectual modes are the immediate application of spirits of hartshorn, or of sal ammoniac, or spirit of wine,

and continued some time.

The IHIKD.—The faliva of a mad dog, or another mad animal. communicated by a bite, gives rife to the most dreadful of all human calamates; and its effects, if not prevented, generally terminate fatally: but these have been faid to be warded off, by using

using the cold bath, and persevering for some time in taking the PULVIS ANTILYSSUS,* a dram and a half of which was to be taken in half a pint of cow's milk in the morning, on an empty ftomach, for four mornings together, and occasionally perfitted in, to much recommended by Dr. Mead -or applying to the Ormskirk medicine; but these have so repeatedly failed, that I should not depend upon them-but where people are strongly wedded in opinion to these compositions, I should advise their administration -but not till after the following mode had been completed:-Immediately after the wound was given, I would advife it to be fucked fome time, which may be done with the greatest fasety, the mouth of the operator being guarded with oil, for his fatisfaction, and the faliva not swallowed; then the part, where it can, should be cut out, or burnt with a bot iron, deeper, and more extended than the wound itself; -after which, the wound should be filled with mercurial ointment, and a bliffer applied over the part-kept open for some time-and mercury thrown into the habit, fo as to raife, and maintain a falivation, for some weeks. For by these means, the poison will be prevented getting into the habit; and should a portion of it have made its way inwards, by the quick action of the absorbent vessels, it might be thrown out, by quickly and conflantly promoting falivary fecretions and excretion.

The FOURIH—The noxious particles, which by infection occasion malignant ulcers of the throat, putrid fevers, or dyfentery—and which are generally uthered in with thiverings, fickness, and fudden loss of firength, have had all their consequent mischiefs prevented, by the inflantaneous exhibition of emetics; and should these fail, so that the whole symptoms do not immediately go off, a large blister applied between the shoulders has commonly removed them. Nurses, in the naval hospitals, have, it is said, from the most undoubted authority, by this mode prevented mischief.

The FIFTH, and LAST of which I shall take notice in this place, are the putrid particles, apt to be taken into the habit, by perfons wounding themselves by diffecting of putrid bodies, or parts mortified--- and of which many instances have recently occurred, where the unfortunate, though praise-worthy, curious inquirers, have fallen facrifices to the deleterious effects.

In cases where, under these circumstances, wounds occur, I should recommend sucking the part immediately, and having it well washed with vinegar; then the application of strong mercurial ointment, and mercurial purges, taken occasionally at proper intervals; for I know of no medicines which so effectually clear

the ferous, and lymphatic fyshem as mercury.—And in the intermediate days a course of antiputrescent medicines and diet should be persisted in—as bark—moderate quantities of wine—or vinous liquors—and vegetable diet—and bark may be very judiciously united with such other materials as promote perspiration, and these should be insisted on, and persevered in for some time, and I have little doubt but they would prove a security

from future danger.

Having now delivered fully what may be thought necessary for understanding the nature of constitutions in their simple, and mixed general state, and alto peculiar, with the modes necessary to be purfued, in keeping them in an healthful state, or of preventing difeates, as far as respect these particular points; we would observe to the young practitioners, or those who thirst after medical information, or love to engage in practice from motives of philanthropy, where medical advice may be far diffant, that the eye should not only be carried to their constitutional points in cales where prevention of dileafes is fludied, but particular attention thould be paid to them in difeafes, wherein they will be found altered from their natural flate, and some different combinations taking place from the effects of the malady itself; which deviations, when discovered, should regulate the conduct; and it will be perceived that medicines highly proper in the beginning of a complaint, are as improper in the conclusion, and so on the contrary, and this alone owing to the alteration made in the habit: for instance, in instammatory remittent fever, where at the onlet, the constitution is possessed of great firmness-strong valcular irritability-and equable nervous incitability-to give bark would be madness, little less than butchery, becaute it would too much increase the already too heightened powers, and occasion the worst confequences: but at the latter end, or during the progress in its later stage, the same is a cure, owing to the constitution being altered by the violence of the disease at this time; for it loses its firmnels-increases vascular weakness-and induces too great nervous incitability, all which are conquered by bark augmenting the tone of the system. But as we have examined particular conflitutions in an healthful state, and pointed out their variability, and spoken of some points necessary to be observed in our conduct, in order to preserve them in that flate, we shall now make the application on a more extensive

SECTION V.

NECESSARY CAUTIONS respecting FOOD, EXERCISE, &c.

WITHEN men' are in a flate of perfect health, the moving powers of the constitution act in unifon with each other, the force of one being in exact proportion with that of another, fo that they perform their functions with eafe and regularity --neither exercifing themselves superabundantly nor defectively; the machine is lively and active --- the thinking faculty alert and clear -- the blood and humours are bland, moderate in quantity, and free from acrimony, which may be diffreshing --- the appetite is good .-- the digestion sufficiently strong --- all the secretions and excretions performed in due order--- fleep found, and refrething --- and no perceptible defect manifests itself in any of the vital, animal, or natural actions; and this fituation of the machine is the greatest bleffing human wishes can defire, and empowers man to enjoy every pleafure of moderation and propriety, within his reach, with the greatest zest and inward satisfaction. But unfortunately, men under these circumstances often plunge thems lives into the opposite extremes, by imprudencies and indulgencies: for it must be observed, that the most perfect state of health is not far dillant from difease, and very often trifling indifferetions lay the foundation for great mischief, if the confequences occuring from thence are not foon but a flop to; which, indeed, by a little care and attention, might frequently be prevented ;---certain rules for which we shall endeavour to point out, which one would fearce think necessary, if we consider the latitude given by CELSUS, to those in health, did not experience every day convince us, that the documents he lays down require fome rettrictions .- He fays, " A man, who is healthful, and at his own dit-" potal, ought not to be confined to any particular regimen; as " he wants not the advice of a phyfician, his mode of life thould " be varied; -he should sometimes relide in the court y. some-"times in cities, but oftener in the former; he mould now " and then fail, hunt, or live at ease, in perfect rest; -he should " use sometimes the warm bath, sometimes the cold; -eat, in " common, all kinds of food ;-fometimes be in company, and " feat himself : fometimes live retired, and abtlemiously ; now " and then take more or less nutriment than might be exactly fro-" per; but refresh himself rather twice with diet, than once a "day, and that in a plantiful portion, if it can be concocted; --- but "though exercise and food in this mode are necessary, in inordi" nate degrees they are not ferviceable; for bufiness, preventing the exercise, which may happen on account of attendance in

" various avocations, the body will be injured, as shore which receive nourithment in their usual way, will quickly decay

" and become disordered."

Though this latitude is given, we must observe it is only to a man in tull vigour of health; but even here during the date of allowed indulgence, some caution becomes necessary, especially against every species of excess; for it is a known and adowed truth, that excess of every kind, whether corporeal or manual, disorders the human frame, and lays the foundation in a variety of complaints; even in those things, a moderate thate of which is necessary for the support of our machines—conduces to invigorate our mental powers, and promote our pleasure.

In eating and drinking, this is an obvious truth, though in the latter it is much fafer to exceed than the former; in proof of

which, let us examine them.

We find that by drinking a quantity of vinous and spirituous liquor, in which all those which cause included; the vital principles, or that which supports life, and renders the machine active, is rendered extremely powerful by the stimulus applied partially to the stomach, or more dribustively; the spirits are elevated, sometimes even to make is; a more than common stress is laid upon the constitution: the habit becomes suffer so long as this stimulus continues, and liquous is poured into the stomach; which stimulus ceasing from constitution the stomach relaxed, and all the vital powers inca acttated to perform their functions properly; hence pain, sickness, head-ach, languor, or a temporary tever, perhaps after a debauch, the whole, or most part of these inconveniencies are experienced.

To remedy which, lying in bed and plentiful dilition with watery liquors—as weak tea—finall both—thin grael, etc should be pertified in, to promote perspiration; or recourse should be had to riding on horseback, by which means the superabundant load will be carried off, and the body restored to its proper tane. Either of these methods may be pursued, as is most agreeable to the constitution: the former I should recommend to plethoric habits, and those of a strong stamina; the latter to the more relaxed whose stomach is generally in a weaker state. Sometimes taking plentifully of the following:—One dram and a haif of falt of tartar, called now prepared kali—four table spoonfuls or sive of tenion juice—water which has been boiled, half a pint—brandy three or four table spoonfuls, and this sweetened with sugar: or if the stomach is very weak, a dram and a half of aro-

matic confection, or two table foconful: of tincture of bark may he added; - a tea cup or more of which may be taken often in the day: - or what is better, the falt of tartar may be dissolved in the liquid, without the lemon inice : and after every fix froonfuls drank, let a table spoonful of lemon juice be taken, and this repeated in the fame manner; - or fome warm and grateful cordial, as rat fin -nfquebaugh-brandy, mixed with peppermint vater, may be administered, which will give immediate relief to those whose flomach is affected with nautea, fickness, or opposifrom, a common proffice with men devoted to liquor; but this thould be had recourse to only on very particular occasions, for it is a cuftom may be attended with difagreeable confequences, if too frequently used, because the flomach, once accustomed to any particular flimulus, requires the confiant repelition of that flimulus, which, in time, deftroys its tone, and lays the foundation for those maladies which arise from inebriation; and it is this which often induce men to turn drunkards: low finited women, frequently from taking things of this fort to exhilirate their frie sit;, are converted into frame'cfs fots, and become the difgrace of their own fex, and contempt of ours. However, this furnishes one proof of the power which the flomach contains over the fustem in general; as by the flourach being stimulated, all that lassitude—lan vor-nansea—sickness—and every uneasy sensation attendant on its relaxation, are removed, except heat.

In except in earing, the flomach is apt to be ever-diffended—the digettive powers weakened—the wiffels filled with crude chyle—respiration retarded; hence a feefe of weight at the flomach—pain and flatulence—propertity to floop—inactivity, and follacts of the head—obfit neted video a—jauridice—dropfy—afilinga—apo lexy—and a number of chicoic complaints, if the

proctice is continued.

But if an error has been committed, and especially if that has been with high-seasoned dishes, a dealest of each water, acidulated with chick of viriot, taken from alter of the acid the standard trom that weight with which it is of an approach, after digestion, relicant fermentation, and prevent flatulency; from

hence, perhaps, the use of ices may be approved.

I remember an account given me of a dignified dergyman, who was to great a flave to his appetite, that he was obliged confiantly to have recomfe to 1 me application to prevent indigettion, he germandized to about nably; so a proof of his greatery, I cannot give it a gentler term, the minoring is recited of him: He was invited to dinner, where every tast to be place efforded, was provided, of which he ear to be called a poet; I it the centleman, with whom he used, knowing he was extremely fond

of vention, and being well acquainted with his disposition, referved the haunch in succession, of which he had advertised he rest of the company; on its appearance, the already fatiated divine, after expressing his sarprise as not being informed of this luxury before, retreated into the yard, disgorged the load he had before swallowed, and returned to the attack of the venison, with his accustomed vigor and prowess, to the attonishment of his companions. Hence we may infer, vomits in many cases are also serviceable; however, at an early period, he became the victim of disease, and died of a drops, succeeding an irremediable jaundice, brought on from this course of living.

With regard to our food, no vever, in quantity and quality, it should be properly proportioned to our exercise. The farmer, who follows his plow, and is perpetually tolling from morning till night, could not exist on food appropriated to those who purfue not the severer exercise of the body; his diet mu be of the coarfer kind, fuch as old milk cheefe, falted a cuts, bread made of rye, potatoes, &c. &c. and thefe in prorty large quantities. This food answers to him the purposes of nature, keeps his body in a flate of health, because his digestive powers are very active, and form from these materials good chile, on account of the occupation in which as is engaged; which in the more delicate and lets laborious, or indolent, would occasion great indisposition. In Hereio dihire, and some other counties, men are not allowed fit for fervice, nor get hired, without, as it is termed, they can bolt bacon: that is, swallow it unmatticated, cut into pieces, about an inch and an half, or two inches lon, and half an inch square, or thereabours, and this in tolerable quantities; and this is done in order that they may attend closely to their labour, without spending any time in taking in nourithment for their necessary support; for bacon being fat, and of a firm texture, from being hardened by falt in its curing, will lie a long time in an undigested state, by which means the cravings of the appetite are kept off, and the strength supported.

But frould abdinence be unavoidable, a man, during that reriod, thould not undertake any laborious employment, as it is to case, the confumption of the thinner fluids would be too great, the folids would be rendered weak for want of proper support, and the liquids dispessed either to form concessions, that is degenerate into too thick makes, or run into a taste of putrescent a-

ciimony.

There is one custom to which the generality of mankind are apt to be addicted; when they have followed ratigue, and that perhaps severe, from hunting theoring, encket playing, walking, ac, they commonly indulge their appetites by eating copoutly

of folid food; and think it one of the benefits from thence arifing, that they are enabled to throw down fuch a load or goofs materials; nav, not content with this, they make them float in poster, ale, or tome other vitcid liquor, and afterwards indulge themselves with a jolly bottle; and this they this k improrted by reation, for where the machine is weakened, it feems natural to Jupy ofe it requires much remethment. It we examine the effects of uch ind to get conduct, we cannot he have to pronounce it enoneous, and condemn the practice: for accereating and drinking, to this manner, they grow dull and many and general laffitule comes on; the pulle grows quick to face fulles, a tempora tever succeeds; sleep is diffurbed; protute sweats break out or a 100 g car general heat, with deyness of the fkin, is perc., i. le, the mouth recommy; the H is an attendant; and they life in the moreing vegry, and affilted with pain, or fliffield in th point we ting that alacrity and after ity they ought to poffels, to the at m's indulgence. Indeed, oftensimes a foundation is laid to intimiely mere ferious complaints, according to the peru in nature of the tever; nav, femetimes immediately brought on, fach a juffammatory or flow fevers, local it flammations, rheum titin, &c. Nor can it be otherwise, for all the vital, natural, and animal nowers are weakened, and a load laid on nature in her debilitated flate, for her to conquer, before the vafcular lystem has recovered its strength sufficiently for the performance of fuch an office.

Were they to comine themselves to liquid food, or that fort readily digetible, such as weak broth, milk, light bread pudding, &c. with wine and water for their beverage, all these inconveniencies would be prevented; the body would only receive that numinent it could readily diget, and the vetlels from not be no over differeded, and their actions too powerfully solicited by a constant to pulus, soon recover, by rest, their natural elasticity; then with impanity might they pushe their sellive joy.

It is also prejudicial after suffering source bunger, to eat immoderately—or after a fail and constant feeding, to fast absolutely. Neither is running into the extremes of rost and labour succes-

fively, by any means attended with fatety.

The conditation may be brought to bear many alterations, but these must be accomplished in a gradual manner, for sew of any consequence happen, but they occasion an alteration in some of the fold of the system, producing either a greater degree of extension or contraction——consequency also a change is created in the fluids: and it any detect should happen in one part, from the moste of producing trose changes, nature provide against such detect by adapting some other parts to the performance of

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their duty, in a greater or a less degree, or a duty that is not naturally intended for them; as we see in the decrease of one evacuation, it often promotes the increase of another; and vessels approximated to the describinge of one study will often emit another, as the case of outstact a mentes, where blood has issued permacedly from the eyes and imags, so that all sudden changes may a productive of a variety of complaints, not only on account of the value being anaccustomed to perform their proper of the value of the penns readered too weak, but want of the or nature to make suitable dispositions, to alleviate distress arising from sudden contingencies.

men vill be trailitate of contractility, lessened in its capacity more than usual; loading it consequently too heavily, will either occasion vomiting, or uneasy sensation of weight: heart-burn, perhaps inflammation, or a spasm of both the ornices, or either of them—or michief might be created in other parts of the machine, from using the vessels, which must also be in too contractile a state, too suli of crude ill ormed chyle; for in this situation, neither the peculiar juices of the liver—swee -bread—nor those of the stomach itself, can be separated in their poper quantity, nor will be endowed with their natural qualities, sufficiently perfected for the business of digestion—all which are absolutely necessary for sorming the nutritious shuid in a salutary state.

And what on the contrary will happen, if a man, after full feeding, filling the habit copiously and constantly with liquids,

should submit to absolute fasting?

As it is needlary to keep up a plenitiude in the veffels, that the fluids may preferve their power of reaction, as a stimulus attiding powerfully the promotion of vaicular contraction, and thus maintaining an easy and equable circulation, we from time to time throw in food to supply the defect of the fluids, which arises from the constant and natural action of the vessels; and this not only constitues a requisite equilibrium, or necessary equality in the powers of the circulatory system, but also supports a continuance of pressure upon the brain, which is very material for the performance of its duty in the body; since we find in proportion as that organ is deprived of that pressure, it performs not its functions regularly—hence convultions—taintings—death; and we also find the more plethoric a man is in a state of health, generally the more warmth he has in his his.

Now if a man is filled with fluids from eating and drinking inorcinately, the conflitution will act under the impulse of increased stimulus.

Sudden and total abilinence therefore would prevent the regionality of the brain's action, and render the fattern languid from withdrawing the flimulus, by which it had been actuated—the veffels would collapse—circulation would be carried on with difficulty—the heart oppressed—and in the first instance, sanguinary concretions might be formed. But should the cause be permanent, the humors, for want of fresh supply of new should, would grow sharp and acrimocious—general initiation take place—a fever ensue—an instammation of the brain come on—and a delirium close the scene.

Having examined the effects produced by fevere hunger, and gratification of the appetite copioully and contantly, and fuldenly changing from one to the other; let us now examine the confequences of the extremes of rest and labour, succeeding each other in the same manner.

And fielt-- What will be the refult if total rest should succeed

hard labour?

The constitution being habituated by custom to any particular practices, especially where the motion of the folids are principally concerned, is so used to the impressions made by those practices, that they become necessary to its welfare. Hence a man accustomed to hard labour, enjoys a better state of health, under that circumstance, than if he was to tall entirely into habits of indolence; for the system being directed of those particular impulses, usual to be given, would experience a degree of torpor, or suggistancis—the situate constantly increased to supply the dispenditum or consumption, having no occasion to be appropriated to that purpose, would form collections in the vascular, glandular, and cellular system—and hence would arise a variety of complaints from suliness, and corpulency—and a foundation be laid for numberless chronic disorders.

And we may observe many men, retiring from avocations which require bodily activity into the arms of idleness, though possessing their hearth under former situations, plunge into discate-- and numbers of them die apoplectic---paralytic---asshma-

tic -- or dropfical.

But, on the contrary, if men apply to hard labour fuddenly, from a fiate of absolute reft---the constitution will become languid, from want of proper support, and be affected with different kinds of consumptions, not of the lungs particularly, but gradual washing away---drophes---fevers, &c.---for the vessels not having been solicited to strong action, and the fluids, though absolute in quantity, not properly claborated to repair the loss severe exercise occasions, the former will be weakened by a sudden increase of action, and want of adequate supplies; ---while

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the latter may form congestions in the head, or internal parts, by being pull d fuddenly forward, and too violently, and foon acquire a dangerous and noxious acrimony from crudity, or deficleacy.

But though extremes in these particulars are highly injudicious, becoming the prolific parents of many maladies, yet pu fued under proper limitations, are replete with innumerable advantages --- for exercise and reit are the certain supporters of a pleaturable life, as far as it depends on general health --- Hence must we allow every frecies of the former very beneficial -- but then it must be limited by the shength--- for when is proper proportion it gives conflicutional vigour, and mefcular femacia --- while inaction renders the body liftlefs, and relixed -- and, indeed, if exercise is parsued to the distress of the natural powers, it cleates a number of injuries, which it, judicious life would

inevitably prevent.

Belides we must observe, that all exercise, of whatever nature, whether walking --- running --- fencing --- riding on he isback -or in a carriage -- playing at cricket, tennis, &c. should be adapted to the prevention of any difeafe the person so using it may have a tendency to fall into --- to those liable to fall into gravilly complain's riding on horseback thould be recommended ;--- to have e Mections of phlegm up a the tungs, reading aloud --- Anying; --th fe fubjett to the gout, walking :-- indigetion, or vifceral obstructime, viding; fuljest to cutch cold, walking ; -- those of firetg muhular itamina, having a flugg for circulation and coldness, playing at cricket or tennis; --- to by feric difeafes, or melancholic affeelions, where the mind broads too much over imaginary calamities --- driving a carriage -- thooting --- hunting, or tome, where their reflection may be withdrawn from unpleafant objects, &c .--and those exercites which are more or less violent, should be adviled according to the ends we wish to promote ; --- for the grand buffreds of these are to increase the tone of the folids --- make the different glands perform their functions; promote infentible perfairation, and prevent the floids from becoming detrimental to either by their thinness, viscidity, or acrimony.

Exe afe may be divited into these times degrees -- the

STRONGEST of which are.

First .-- Playing at tennis, cricket, freeing, and running, &c, where great mascular exertions is necessary.

Second -- Walking, reading aloud, riding on holistack, or in a

carriage:

Laft .- Sailing, chamber-horfe, dam's bills and frictions: which last are appropriated to old age, where mu callar force begins to grow effece; and are necessary for the perferrance of health, by promoting the circulation of the blood, and motion of

the fluids, through the minute vellels.

But fleep is effeemed the grand preferver and reflorer of health, fuch as is well-timed, and properly proportioned; for some conflitutions require much more than others.—It is one thing the most effectially necessary to life, as this is the time when the fystem is freed from all incumbrances, undisturbed by mental reflections, which often disorder the animal economy, and prevent the human frame from acting, through all her departments, with equality and full force, in which the nutritious particles, properly perfected by the operation of the constitution, or chiefly applied to repair the walle, and replace those which have been abraded, and washed off by the labor and exercise of the day.

Thus fituated, the moving and affimilating powers of the body have only that business by which the parts are renewed to perform, and the vessels are properly disposed to receive such additions as are required, and co-operate to that end; but if the machine is too much indulged in this particular, it becomes much disposed to be corpulent, languid, and weak, and teel a number

of inconveniencies from the ce arifing.

With regard to the time necessary for the producing the good effects it is various in different constitutions: fix or feven hours rest is sufficient for many adult constitutions, though some require not or twelve.—A lad whom lattended, of a relaxed and decate habit, subject to hysteric affections, and an acrimonious state of humors, though by no means indolently disposed, was advited to rise early, and g adually lessen the time she used to devote to her bed, which was constantly twelve hours, and which was supposed to contribute much to the relaxation of her habit—she made the attempt for some time, but could never enjoy so comfortable a state of health, as when she indulged herself in her usual custom.

Still in many this indulgence enervates the fystem--renders them hypochondriacal and hysterical--relaxes the folids--difposes the humors to be viscid, or acrimonious---blunts the vital

powers---and brings on a difeafed, and early old age.

But, notwithstanding, we will allow that in the herfelf requires, in different constitutions, such variability;—the custom of sleeping long, and i dulging in bed, is very frequently the result of indolence, early induced, and long encouraged:—such a diffgraceful waste of time should be discountenanced, and the nabit conquered, which may always be accomplished, in the early and middle part of life, where it arises not from constitutional necessity, naturally implanted; but it must be done by slow degrees, for all extremes of change are detrimental.

It

It is the practice of numbers to indulge themselves in sleeping in the day-time; some immediately after dinner—still, not-withstanding what has been advanced by some authors, that sleep is useful even at those times, as it promotes digestion, I think the rule, very often, more falutary in the breach than the conformity; for it creates giddiness and languor, especially in those addicted to study—deadens their thinking faculties, destroys perspicuity, and clouds the imagination; but if no such effects are perceived, and people find themselves recruited, alert, and active, it may be allowed.

In proportion as the powers of digestion are more or less strong in different ages, with respect to DIET, they have claimed dif-

ferent kinds.

To the younger class of subjects, and children, therefore, viands of the milder, and softer fort, are considered as the most proper, as being more readily assimilated.

To grown persons, those which are more substantial and solid-

and

For old people, it has been thought adviseable to retrench of their folid, take that nourishment which is more fluid, and increase rather in drinking; because they not only digest less freely, but the machine approaches more to dryness, from a desici-

ency in their juices.

Were the regulations here laid down observed with tolerable attention, and those adverted to which have been spoken of, when treating of the Non-naturals, adapting them to the peculiar circumstances of different constitutions, a plan may be formed by every individual sufficient to contribute towards the continuance of health; nay, be fully adequate to insure its preservation, if closely pursued.

These rules, though, are calculated for those who are arrived at the years of maturity, or at such a time of life, that they may become subject to the directions of others, who have made these things their study, and have from thence acquired a competent

knowledge.

But before we conclude this part of our work, it feems proper to take notice of what is necessary to be done in the infantile state, in order to promote for our offspring, in their tender years, the fame benefits—and this leads us to consider the good or evil consequences of proper or injudicious Nursing, which we shall make the subject of our next Section.

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3 E C T I O N VI.

On NURSING. There are are of the

IF we look into and examine the bills of mortality, to be in-formed at what ages the greatest number of people die, we shall find that half of them go off under the age of five years :-to what are we to attribute this? That nature is defective in her operations, and that half of mankind are born in fo imperfect a state, formed of materials so bad, or so defectively united, that they cannot support the operations necessary for the continuance of their existence any longer? Or are we to conclude that in that period they are subject to more fatal maladies, and die the victims of difease in greater proportion than at any other time? Were such conclusions to be formed, we should be accusing the Omnipotence of Providence, or arraigning the principal Agent of Heaven, NATURE, of executing her office wantonly, or improvidently. This, then, cannot be the case; for if we look through the vegetable or mineral kingdom, we shall never find that any of their productions are subject to be destroyed, merely because they are in a state of primary existence—or in the brute creation, because they are young. When destruction happens to them, it is from being placed in fuch fituations, and under fuch circumstances, as are not congenial with their peculiar nature:-- fo happens it, I have no doubt, with the human species that this mortality in the infantile state is owing to bad nurfing, where, by these means, the operations of the conflitution are impeded, or perverted from the indolence, ignorance, or superstition of those allotted to rear the infant in its tenderer years- and it is affonishing, that, in a business requiring the utmost simplicity for its success, so many, and such great errors should be committed, as to become too certainly, and too commonly fatal, particularly in children born of delicate and weakly parents; who, partaking of their conflitutions, are liable to be severely afflicted from indifcreet management, and want Arength to flruggle through calamities originating from that fource.

Let us cast our eye amongst the hardy sons of the rustic race—compare those with the offspring of the more resined and polished—what a difference in appearance! Amongst the former, we find the children firm, robust, livery, healthful, active, and strong; amongst the latter, weak, puny, relaxed, and sickly. Amongst

the

The former few die, but from the accession of unavoidable illness, as measles, small-pox, chin-cough, dentition, &c. Among the latter numberless expire from gripes, loofenesses, heetic severs, worms and convulsions.

But there are greater evils than diffolution in this state from this cause; for from hence discase itself is generated, and so fixed in the habit, that the life of many is oftentimes one continued scene of misery ;-nay, I have no doubt but, from this fource, the temper and disposition acquire so fretful a cast, and oftentimes is fo foured, and rendered fo petulent and pervifu, that, whilft they do exist, they continue unlappy and miserable in themselves, as well as troublesome and offe. Sive to their attendants and their affociates; for it has been allowed, that the faculties of the mind, very often depend upon the organs of the body; for when these are in a tolerable perfect flate, fo as to perform their separate functions properly, the thinking part is more alert, aftive, and cheerful; and good-humour the confequence of fuch freedom-whilst the contrary effects are produced, when the organs are diffurbed, or difeafed. To avoid, then, which disagreeable essects, it is our bufiness to lay down fuch regulations as are founded on rational principles, supported by experience, and which confift in bringing up children in a plain and simple manner, the mode most consonant with nature; and if we observe the method the invariably purfues, we shall find that the delights in simplicity alone. View but the brute creation, and those of the feathered race-fee what occurs in them; examine what method they, rearring their young, inflictively adopt, and mark their fuccefs cleanliness, proper feeding and exercite, comprehend in these the infinite wishom of her laws and if we add judicious cloathing, fo should they that of the human species,

As foon as quadrupeds bring forth their young, the first care of the mother is properly to clean them, and keep them perfectly warm, till all the moisture is exhaled from the surface of the body; so happens it with birds: after which the young sleep for some time—almost constantly for the first sew days; in brutes, supported by the mother's milk alone, which is ready in the breast at an early period, the young soon walk, and become playful and sportive, by which means they procure to themselves sufficient exercise, and in this manner are brought up with case and certainty: with respect to cleanliness, the scathered race do the same, never leaving their young after they are hatched, till they are periodity clean and dry; the mother, as soon as the egg is freed from the young, placing it under her in the warmest part; but as they are divested of milk, in order to nourish them, if of the granivorous kind, the endeavours to render their nutri-

ment the most easily digestible, and as nearly fluid as possible, by picking up grain, macerating for some time in her stomach, and then throwing it up into the mouths of her young, who, whilst feeding, flutter their wings, and agitate their whole bodies in a furprifing manner, which ferves as a species of exercife, and this univertally prevails in all fuch as lay in the neft fome time before they can use exercise by slight, or running about, and feeding themselves.

In raifing up our young, we therefore cannot do better than imitate these laws, so universally prevalent, of which we shall

take a general furvey; -which confift in,

3. Exercife, 1. Cleanliness, 2. Cloathing, 4. Food,

under which all will be included necessary for the proper conduct of those who make nurling their particular business, or undertake that office from necessity or inclination.—And first we must observe.

That numbers of children, as foon as they are born, are covered with a mucus, or white fordes, which ought to be washed off with foap and water; but should it be very adhesive, there is no necessity of subbing the infant severely at first, for on the fecond drefling, if any remains, it will readily come off; and long continued or violent friction is apt to create uneafinefs, fubject the child to catch cold, and produce inflammation; and as cold, at this very early period, occasions several disagreeable confequences, particularly fore eyes-cough-stuffing at the bream gripes-loofenefs-or floppage in the noie, at the birth, it should be wrapped up in a flannel receiver, lined with fine old linen, an I kept from the contact of the cold air, for a quarter or half an hour, before it is cleaned, and this should be performed before the fire; indeed, before the infant is taken from the mother, it will be prudent to cover the eyes by a fost linen bandage, and failen it at the back part of the head. As foon as the child is cleaned, and well dried, the naval string should be carefully folded up in a piece of scorched rag, in two or three folds; for this not only prevents the infant from running the rifque of being griped by the coldness of the naval string, but absorbs the of live liquid which is generated by its running into a corrupt

It is the custom next for nurses to rub the child's head extremely well with their hand after washing, and apply brandy or fome ardent spirits at the same time, and then forcibly press the head in different directions, under the notion of aiding in joining the bones, where the futures are open, a contrivance of nature, apparently that in labour the dimensions of the head may

be lessened by the different bones riding one over the other, and delivery, by these means, be facilitated; after which the child's

head is tight bound up with with a forehead cloth.

This over officiousness is highly detrimental and derogatory to the intent of nature; for by preffing the head too forcibly, and keeping it in a confined state, prevents the proper circulation of the blood through the veffels of the brain, and brings on convulfions and other complaints from congestion; and all this without in the least answering the intent for which this absurd custom is practifed. For the bones join not by the edges of them coming in contact with each other, but from bony matter deposited in the cartilaginous and membranous fubstance of the cranium, and forming a junction in this way, and therefore the head thould be left entirely to itfelf, after being well cleaned, without the labour has been very fevere; then fometimes the vertex will be greatly fwelled by the long continuance of labour, occasioning great pressure upon the larger part of the head, and impeding the return of the fluids, by which the skin on the vertex of the cranium will be fo loaded with fluids, as fom simes to produce a tumor, not inferior in fize to a large egg, which may inflame and suppurate, as I have observed, particularly where imprudently managed.

Initead, therefore, of fubmitting the head to fo fevere friction, let it be bathed, where fwelled, with brandy—arquabufade water—or fome other ardent fairits; or rags, three or four doubles, may be dipped in Coulard's faturnine water, mixed with about a fourth or fifth part brandy, and applied to the part affected; and then the head faould be covered with a loofe flannel cap, over which may be placed a linen one, tied under the chin only just fo tight as to keep it upon the head: and this operation may be repeated once a day till the fwelling fubfides, which will com-

monly be in the space of two or three days.

Under the idea of giving strength to the child's back, and enable it to support itself, it used to be the practice, and still continues in some country villages, to swathe or roll the child very tight round the abdomen, with a very broad roller; by which means the circulation of the blood was impeded, the superior parts loaded, the peristaltic motion of the intestines, and the action of the abdominal muscles, hindered from properly performing their offices; hence gripes—convulsions—coughs—and general uneasiness. Instead, therefore, of this roller, a short stannel petticoat, with a broad head should be tied round on the wais, only to right, as that a singer will easily pass under it; so that if the child's belly swells, as it sometimes will from statulence, it may experience no uncasiness; and if after this a long linen

gown

gown is put on, the child will be fufficiently dressed, be perfectly easy, and no obstruction occur to prevent nature performing her proper operations. But there is another error frequently committed with respect to what they think necessary to give the infant internally; therefore, as soon as it is dressed, they cram down its throat a large lump of butter and coarse sugar; or give it oil of tweet almonds and syrup of violets: or should the infant lick its lips, it must be fed with pig, that is, it must be permitted to suck the sat of that animal, in order to appeare, it is supposed, a sentation which arises from its mother's having longed

for fomething or another during her pregnancy.

Were there nothing but the mere folly and absurdity to be confidered as the refult of this practice, it would not be necessiary to fay any thing to induce its forbearance; but thefe things are pernicious, inalmuch as they mix with the meconium, or humor with which a child's bowels is naturally loaded, prevents its growing fusiciently acrid to produce its purgative effect, or theath the bowels from feeling the effect, and thus produce mamy complaints which load, oppression, and distension of the intestinal canal are apt to bring on: for nature seems to intend this meconium to clear, at an early flage, the first passages of the fordes which have accumulated there. If, therefore, it is determined to give fomething to the infant, a little castor oil, and fimple fyrug, will be the boll, because it answers the purpose intended by the meconium. For if we confider the flate of the infant during labour -- the effe is of the meconium left to itself -- the time before the mother acquires her milk, and that its property is at first apprient, we shall obviously see the reason, why nature preferves this regularity in foliciting a discharge of stuids through the prime vie; and shew that if any thing is to be attempted, her plan ought to direct all our operations. For befides clearing the flomach and bowels of its contents, which, by continuance there, might produce disagreeable and dangerous effects, it feems intended to prevent the too free determination of blood towards the veffels of the brain, which might be in a weakened flate from the severity of labour: for the brain very often suffers great compression from the bones of the head passing through the pelvis; indeed it is often fo great, that the bones will wrap confiderably one over the other, and confequently the capacity of the cranium be much diminished; by which means the blood will be prevented from passing into the exterior part of the brain, which is thrown into the head by the arteries appropriated for that purpose, consequently the internal vessels will receive a more than proper quantity, and by being too much diffended, of courfe be weakened, and that in proportion to the continuance and vi-

olence

olence of fuch pressure; in order, therefore, to prevent the milchiefs which would arise from such debility, if continued, and the fucceeding accumulation, I conceive ature very wilely conflituted purging, that the veffels may recover their due tone; and that this is one principal reason, I am induced to believe, from the first of the mother's milk always having a purgative property.

But however, I think that the less any fort of these things are given the better. As foon, therefore, as the child is drelled, and the mother laid in a clean and comfortable fituation, the child should be placed in bed by her, and both left to go to rest, which that will foon do, and fleep perhaps for fix or feven hours, by which means they will be refreshed, and recover in a great degree the fatigue they have both undergone: then the mother should be fed with some thin broth, or weak wine gruel, and a little bread, or fome fuch fimple materials; and the child, if the mother intends to nurse it, set to the breast; notwithstanding what some authors have faid to the contrary, under the idea, that as nature does not furnish any quantity of milk in the breast, till the expiration of three days or thereabouts, it is useless, and only teazing to the mother and child, to have it fet to before. This I am perfectly perfuaded though is erroneous, and often attended with disagreeable consequences, both to the mother and infant, disposing the former to febrile assections, and bringing on a milk fever, from pain created by diffention of the veffels of the breaft, and keeping the infant too long from that falutary food which nature has provided for it, and acts at first in a double capacity, as we have before specified; besides it supplies an opportunity for ignorant and over officious nurses to cram the children with a variety of dabs, and too viscid food; by which means a foundation is laid for a number of complaints, from loading and oppressing the alimentary canal, by such things as are unconquerable by the digestive powers of the infantile state; hence arite crudities, acidity, flatulence, and convultions, which by a different management would be prevented. For by fetting the child at an early period to the mother's breast, by the gentle stimulus on the nipple from fucking, the milk is folicited in a gradual manner into the breast-the vessels are made by degrees permeable—the infant receives it at first in fmall quantities, adequate to its wants and digestive powers-no superabundance of milk is collected, nor a fudden flow of it into the lattiferous tubes, by which diffention, pain, and febrile affections to the mother are prevented; the child's stomach is not overloaded, nor too great a quantity of fluid thrown into the habit, which would be injurious to feveral parts of the machine, particularly

the head-lungs-and liver-as the circulation of the blood is now altered from what it was before the birth, and confequently the veffels in those organs incapable to bear sudden and too free diftention; for the parts of the human machine are always better enabled to fuffer changes brought on in a gradual and temperate mode, than by fuch as operate in the contrary extreme: and this feems, in the case of which we are speaking, to be the intent of unerring nature; it is so perfectly rational, that the description alone carries along with it conviction. Indeed, I am fo clearly convinced of the great utility and good confequences arifing from the adoption of this method, both from reason and experience, that I univerfally recommend it to those who are capable and willing to fuckle their own children; and in all healthful fubjects, it is a practice which should on no account be difpenfed with; for to me, there is little doubt but that the milk of the mother is better adapted to the constitution of her own offspring than of any other; besides the advantages attending the first, as much so, I think, as the natural soil is to any indigenous vegetable: nor do I stand single in this opinion; for many authors, who have written best on this subject, not only support the same doctrine, but think that the mother's milk is sufficient for the nourishment of the infant for the first twelve months, and recommend that, to that alone they should adhere.

Could we infure the health of the mother and child, I should not hefitate to enforce the custom; but as both are liable to fall into dispositions, which may either, on the one hand, render the milk improper, from its nutritions qualities being altered; or, on the other, from its increasing some complaint in the prima viæ. I think, during the child's being nourithed from the breaft, it should be fed once or twice a day with the boat; that if any accident should render it absolutely necessary to wear the child, or take it for a time from the breast, no inconvenience may arise from fuch an alteration; for many children feed folely by the breast-take very ill to the boat: nay, some indeed are obliged to be supplied by the breast of a stranger, a circumstance often painful, and almost always disagreeable to the parents-and as a fuccedaneum for the mother's milk that of affes is the best, or artificial affes milk with a little bread, called tops and bottoms; or roll, or biscuit-not the common bread, for that has in its composition too much of alum, and may, in habits where there

is a propenfity to costiveness, be particularly hurtful.

But as children are apt to have most of their complaints originate from acidities in the stomach and bowels, or to have such acidities very often as a distressing consequence, it would be right to use them to the taste of other viands; particularly weak veal broth.

broth, or that of mutton; or beef tea, if they fliculd have no disposition to sebuile affections :- but, whatever the food, care should be taken never to overload the stomach, as is too commonly the cudom; fo much fo, that often, in the day, they may be observed restless, uneary, and fick, and refleved alone by frequently puking-a happy remedy against the millaken humanity of over-fond mothers; for it is a common practice with them, and other nurses, as foon, or as often as a child cries, oc appears fretful, to appeale it by giving the breaft, though it should, a few minutes before, have sucked to satiety. Instead of this, the child should be amufed by dandling gently, or by some other means diverted : exercise however is the best, in propertion to its age. In the first months, fuch as is moderate, and of the gentler kind; afterwards, as its flrength increases, fo may the exercise; for this quickens circulation, augments perspiration, affilts digestion, and helps to clear away visceral obstructions, and prevent cottiveness. Indeed, in the early stage, it is uleful, twice a day, when drefling and undrefling the child, for the nurse to rub it well with her hands, particularly on the extremities, down the back and abdomen, before the fire, for a quarter of an hour each morning and evening .- The infant will thew its approbation, and the utility, by kicking and throwing about its legs, fmiling, crowing, and by a perceptible brightness in its eyes, and cheerfulness in its countenance. In some countries, particularly in some parts of Scotland, mothers very early adopt the cultom of dipping their children every morning into cold water; on which cultom Dr Cullen makes the following observation: That he had seldom, or never seen the ofispring of their women, fo treated, subject to the rickets. It has long been recommended, and I think with some advantage, to wash the legs, thighs, back, and head, with cold water. In this cultum there appear two very material advantages-cleanlinefs, and gently increasing the tone of the fystem: by which the fystem is unloaded, and strength given to the muscular sibres. And upon these two principles, regularly promoted, is it. perhaps, that we may attribute, in a great degree, the prevention of that complaint we have just alluded to-a complaint, the constant concomirant of nathinels, inordinate feeding, with improper food,

Though this practice is very ferviceable to healthful children, fill, in such as are delicate, and disposed to intestinal complaints, fome attention ought to be paid to the degree of cold used on this occasion; and derefore in these, it may be prudent to vix a portion of warm water with that which is cold, so that it may fill remain a proportionate degree of cold, compared with the

natural

natural warmth of the conflictation, but of warmth compared with other common water; for we know that fome will bear cold bathing, or washing, and receive abundant benefit, if the degree of cold only be such, that the internal part of the system shall be capable of producing re-action adequate to the impulse of the sluids occasioned by the external application; if not, many disagree able consequences occur, arising from a load being thrown upon the internal parts too suddenly, and too copiously, so as to overpower their action, such as congessions in, obstructions, and informatations of the brain, lungs, viscera, and some of the glandular parts, wherever they appear, from their debility, to be met

predisposed to such affections.

In this method it may be necessary to persist for three, four, or five months; but as children grow stronger, they then generally require thicker and thronger food, given them once or twice a day; cow's milk with roll, bifcuit. Tops and bottoms may be made use of, moderately sweetened, or panada, mixed with new milk, warm; and this food thould be made freth twice a day in winter, and three times in fummer: the new milk flould not be boiled, but mixed with hot panada, or pap; nor should the viaids be made fweeter than that of mother's milk, nor given hotter than milk from the cow; for victuals too hot, or too fweet, are apt to occasion relaxation of the stomach and bowels, and create morbid afcidity; and thould the child be of a coffice habit, fost Lilbon fugar, if laxative, superfine sugar should be made use of: broths also should make part of their food, minced chicken, or rabbit, with panada, and bread puddings, particularly after they are weaned; confequently, a little before, it would be right to accultom them to fuch fort of food. Potatocs is a food which numbers of children are fond of, and are very early accustomed to; however, to those of delicate habit, I think them by no means proper, nor any other that are possessed of much vifeldity, inafanuch as the accumulation of fuch tenacious food in the stomach and intestines is apt to form a nidus for worms; but to those of firong digestive powers, born of healthful, athletic parents, fuch as common ruftics, this prohibition is less necessary; as it has been observed, in countries where this vegetable root frequently and commonly makes part, and a great fhare of their diet, no fuch inconvenience has been observed; but this depends not upon the Calubrity of fuch fort of dier, but upon the firm framina, and great flrength of the discflive powers of those who feed on it-to the more delicate it is certainly injurious; and it is upon the strength or debility of the conflitutional powers by which we must in general regulate our conduct in our directions .- If children are born healthful, and ftrong, fuch regulations as are above laid down, will be fusicient to conduct them forwards, with eafe and fafety, for the first twelve months, or longer; but should they be born fickly, as is sometimes the case, it may be asked, are the same rules to be observed? Under fuch circumstances, cleanliness, proper cloathing, gentle exercise, and the mother's milk, certainly form the bett preventive and curative plan; for, by their proper adoption, I have no doubt but constitutions, weakly in their origin, may be threngthened, and a number of complaints, the natural result of debility not only cured, but often prevented. Though fome cauti m may be necessary in feeding children naturally weak, great care it ould he taken never to overload the stomach, nocwithdanding to food should be confined to that afforded by the mother; it, therefore, should be adviseable to give the breast to the child much oftner, so that a little milk only may be taken at artime, which will be easily and readily digested. This may be confidered troublesome to the mother, yet will she be amply revail, by seeing her offspring improve daily under fuch judicious maragement, and meliorating a conftitution, which otherwise would be made worfe, and fall a facrifice to painful difease; for, by overloading the flomach, that organ would be weakened, crudities and acidities be generated, green flools, loofeness, gripes, and convultions be the unvoidable confequences; for almost all complaints with which infants are at a very early period afflicted, except these which arise hereditarily, from mas-contormation of fome particular parts, infection, or contagion, deduce their origin from defect in the alimentary tube, and that generally acidity, occasioned too often by indiferest and too copious feeding. But when such acidities are too prevalent, they conflitute difcales, and will be taken notice of when we treat of fuch as are incident to children; we shall only observe, if there appears a proneness in the habit to produce them, belides the mode here directed for invigorating the conflitution, it might be proper, now and then, to put a little magnetia into the victuals, if coftive: if otherwise, some of the other prepared absorbent earths, fuch as chalk, crabs eyes, or prepared hartfhorn; feed the infant once or twice a day upon broth, and ute rice inflead of bread, for it is less apt to turn four than any other of the lighter farinaceous fubstances.

But many authors have, respecting mothers suckling their children, tail it down as an indispensable duty, and advanced, that almost all, of whatever nature their constitution may be, are capable of performing that office with the greatest advantage to their own constitutions, as well as to their children; for, says Dr. Cadegan, "When a child sucks its own mother, which,

0 2

" with a very few exceptions, would be belt for every child, " and every mother, nature has provided it with fuch whole-" fome and fuitable nourthment, fuppoling her a temperate wo-" man, that makes some use of her limbs, it can hardly do a-" mifs. The mother would likewife, in most hysterical nervous " cales, offabilifn her own health by it, though she were weak " and fickly before, as well as that of her offspring .- For thefe " regions I could with, that every woman that is able, whose " fountains are not greatly diffurbed, or tainted, would give " fuck to her child. I am very fure that forcing back the milk, " which mod young women must have in great abundance, may be of fatal consequence: sometimes it endangers lite; and of-" ten lays the foundation of many incurable difeates. The rea-" fons that are given for this practice are very frivolous, and " drawn from fa'fe premises; that some women are too weak " to bear fuch a draid, which would rob them of their own nousi rithment.

"This is a very missaken notion: for the first general cause of most people's discases is, not want of nourishment, as is here in gined, but too great a fulness and redundancy of humors; "- good at not, but being more than the body can employ, or contume, they stage are, degenerate, and the whole mass be-

" comes corrupt, and produces many difeafes."

However, notwithflunding this authority, I am certain that there are many mothers totally incapable of giving fuck, particularly fuch as are of very delicate nervous conflitutions, weak sp. ctites, and pesiessed of bad digestive powers-whose fluids are ac imonious, and habits labject to hysteric affections; for thefe, in coreal, neither afford milk fufficient in quantity, not properly claborated for nutrition; hence, when they attempt to fuekl. their children, they do infinite mischief to their own constiautions, by having it debilitated by the conflant drain of what the ld support themselves, and lay the foundation for a variety of complaints in their offspring, by pouring into it fuch crude unwholesome fluid. The children of such women should either be set to another woman's breast, or brought up by the boat. THE FORMER, there are fome precautions requifite to be obierved, fuch as we are directed to by the imitation of natureas the intent is deprived of the mother's first milk, which is purgative, and clears the prime vice of their fordes, art must supply the deliciency by gentle means : the infant, then, should have fome aperient ingredient mixed with its food, as will prove purgative—the best of which is manna, and pulp of cassia. These may be given in such quantities as will procure the child four flools every day for about eight or nine days; or a little cafter

oil, mixed with fyrup, may be given at proper intervals. Once a day, perhaps, may be fufficient; or the nurse may take some aperient electuary for the first week of suckling, which will sometimes answer the purpose equally, in such doses only as may impregnate the milk with some of its aperient properties; after which, the same directions should be pursued as have been before fet down.

But with regard to the felection of a nurse much is necessary. She should be young, cleanly, active, healthful, free from any complaint, possessed of a good appetite, and quick, easy, digestive powers; and, above all things, her milk should not be too old—the nearer the time to ner having laid in the better, for the milk will then partake more of the nature of the mother's milk. I have faid the should be young—by that I mean between twenty and thirty, for, at this time of life, they are generally in the most healthy state, most active, and more capable of contending with fatigue, and other unavoidable casualties, without prejudicing their milk—which sluid it will be necessary to examine, for some women's milk is apt to be too thick, sweet, and rich, whilst others appear thin and watery—that is best which partakes neither too much of the one or the other of these extremes.

Sometimes I have known parents very folicitous of dieting nurses, in order to keep the milk in proper order, and this I have feen productive of bad effects. I would by no means take any nurse from that mode of living by which she enjoyed a good and perfect flate of health; for though we may tell what appears ikely to produce general effects in the habit, if we form our udgment from experiments made on different materials out of the constitution, still the peculiarities there existing, which can only be discovered by effects, make such alterations, the cause or which we are unable to investigate, and should therefore be conent with observing the consequences. I should, therefore, recommend that nurses should live in the common plain mode, of liands simple and nutritious, composed of animal and vegetable abiliances, avoiding all high-feafoned dishes, or falted provisions; or these become distinult of digestion, create thirst, induce febrile affections, and promote an acrimonious state of sluids. I becify this, because nurses, often taken into great families, are fery defirous of quitting their homely fare, and indulging in the Taxuries of high life.

If the BOAT is MADE CHOICE OF, a fimilar mode should be pursued with regard to clearing the prime vie, and the viands with which the child should be fed, must be such as most refemde the mother's milk, shaid, not too sweet, nor given too hot, and vartaking, in some degree, of animal and vegetable nature—ass-

es, or artificial afs's milk, mixed with thin panada, made as above directed, or milk, warm from the cow: perhaps, in both cafes, feeding children at stated periods, about four times a day will

be fufficient, if that cultom is begun very early.

So effentially necessary has exercise been considered towards the support of health, that it has been advited by every author; but it should be such as is adapted to the age and constitution of the patient: in the arit periods very gentle, afterwards increafed, as the firength of the infant increases, and that will be always the best, which, at the same time it gives motion to the body, appears to divert and entertair, for the spirits by these means are exhilirated, and the mind, from being amufed, gives alto quickness and flrength to nervous and vaicular action -- rubbing the child well before the fire twice a day we have specified, gently fwinging, or heilting for fome time together, before fome objects which enough its attention, causing the little infant to laugh, kick its legs, and exert its whole body by little forings, in the nurse's arms, will be proper; for no child can continue long well that is feilered to fit like a log in an indolent nurie's arms; for fuch a federary position breeds crudities, occasions the habit to be overloaded, blunts the activity of the veffels, retards circulation, and breeds a variety of complaints from internal congestion; -- nor should naries be permitted to carry children always in one arm, a cufton too many acquire, but more particularly if the infant is inactive and weakly; for, from always reclining to one fide, diffortion is apt to take place: therefore, they should constantly be removed from one to the other. It is highly utefal to fuffer little ones to roll upon carpets, and be aroused with some little toy or other, that may entice their exertions, to creep from place to place after it. This is a pleafant exercise, and early teaches amactive ase of their little limbsand I have observed children, so brought up, more early get upon their legs, and run about, than others who have been used to leading-firings, go-carrs, and contrivances of their kinds; it is most advised le first to lead them off gently by the finger, and that may be attempted at a more early period than some advisefor the idea of fetting children upon their legs very foon, occaflors them to be crooked, is not in fact true—fo far from that, it gives them additional strength; and it has been observed, that the legs of children which have at first appeared crooked, have, by early excitions to walk, become flronger, and perfectly ftraight.

Belides these things, children should often be taken into the fresh air, and remain therein for some time, at least twice a day, and always be kept perfectly clean, changing their cleths imme-

diately

diately upon being fouled; for fuffering them to continue in a filthy flate, for any time, disposes the parts to become tender and excoriated, creating pain, rendering children poevish, and inactive. They should also be often washed with cold water behind the cars, as well as other parts of the body; for, from neglect in this particular, the moilture, which naturally collects there. becomes actimonious, irritates, and inflames the parts, and occafions an acrid difeharge, which brings on difegreeable and painful excoriations. When it is from the neglect of this cuftom that this complaint arises, which we may conjecture to be the cufe, if the child appears healthful in every other respect, washing behind the ears with warm milk and water, or Couland's water, or forcading a very fine rag, extremely thin, with faturnine cintment, and cleanliness, will generally promote the cure; but thould we have reason to suppose it a drain exerted by nature for the relief of internal indisposition, other management seems recollary, which we shall specify when we come to treat on infantile difeafes.

As we think that a vaft deal depends upon proper Nursing, in order to preferve the human species, and prevent a variety of diseases, which too often end satally, or lay the foundation for various morbid affections, which are too apt to continue the painful concomitants of our suture days, and embitter life through the whole of its progress, we have dwelt longer on this point than may to some appear necessary, but which we think cannot be too minutely observed; and it may not be useless to attempt to comprize the whole in a few thort axioms—and, first, we lay it down as an invariable rule,

That, immediately after the birth, children flould be wrapped in a warm wrapper, to preferve them from cold; afterwards, in about half an hour, be well cleaned before the fire, loofely and lightly cloathed, not crammed with any dabs, but laid by the mother, and fet to her breaft as foon as possible.

That, where the conftitution will permit, all mothers should fuckle their own children, at the same time not depend totally upon the breast, but occasionally use them to the boat, or spoon, in order to be prepared against the effects of indisposition, either in one or the other, should they occur.

That cleanliness should ever be invariably, and constantly obferved—children never have their stomachs overloaded, but be fed suffy only at proper intervals, sive times a day; it not, oftner, and more sparingly.

That all food, besides the mother's milk, should be of a nature as similar as possible to that milk, compounded of vegetable and animal materials, as ass's, or artificial as's milk, cow's milk.

mixed

mixed with thin panada, or rice used instead of bread, and weak

broths occasionally.

That they should be constantly exercised, agreeable to their age and strength, and such used as seems to afford them pleasure, and employ their attention; they also should be much out in the air, and be attended by clean, young, lively, and active nurses.

SECTION VII.

ON MEDICINE.

BEFORE we enter on that part of our plan, wherein we intend to describe diseases, and lay down their most approved modes of cure, it will be proper to say something on the disserting and the remedies which will be recommended, in order to render the knowledge in their application more safe, cafy, and certain;—as well as to explain the different general terms under which they are classed—as to these general terms we shall be unavoidably led very often to have recourse.

But previous to the forming our arrangement, we think it neceflary to specify the different modes of action of various medicines taken from their known effects, as we find from experience

they act in various ways-and we shall first observe-

That—active medicines produce their effects, by confining their action to the moving powers of the conflictation, page 56, locally, or fympathetically;—if we except water, confidered as a diluent, or fuch fubliances, where water abounds in a fuperabundant quantity.

That no medicine acts upon the femina morbi, or particles, which form the origin of some diseases;— except they lodge in the stomach, intestines, or some other cavities, where they come in contact in an unaltered state with the cause of the associous:—consequently that there are very sew, which can in any case

be confidered as specific :- and then only in this way.

That—all medicines, cateirs paribus, possess their own peculiar, inherent power in an unaltered state, and always exert similar effects:—that when they appear to have any variability of action, it is owing to the constitution being different;—to the same constitution having suffered some change,—or some peculiarity;—or to something they must meet with in the habit forming a new compound.

That -- the strong inherent power, or primary ection of any medicine being known, its secondary or consequent effects may be traced in general from the same source—and that when these are altered, it is owing to some constitutional cause last specified, or to the difference of the dole, varying its action only in degree.

That—fome medicines, to which are attributed particular powers, have no fuch powers inherent in themselves; but are inactive, and have their action dependant on some other materials with which they meet, and form combination in the habit, making a new substance, different from the principles of which they are composed, and to which must be attributed their active powers.

That—fone medicines, when thrown into the habit, have not the power always of exerting their primary action of themselves alone, but when joined with other materials, produce the effect intended, consider with the power allowed inherent in them.

That—medicines do not always in fimilar doses produce the same effects, on diffimilar constitutions—nor, before the trial, can the active dose be discovered;—therefore in the exhibition of all powerful medicines, this general rule should be observed—to begin with small doses, and gradually increase them, till the proper constitutional dose is manifested;—that is, till nausea, sickness, or some uneasy sensation in the stomach is created, then by lessening the dose in a flight degree, the full one may be ascertained—and this holds good in all active medicines—except such where benefit is supposed to be derived from occasioning nausea, or fickness—as occurs often in the administration of quills—ipecacuanta—and some antimonial preparations.

Now, as we find a number of these actions depend upon the stomach, and its intimate connections with different parts of the human machine, we may say every part, that are possessed of moving powers, and influenced by them, it will not be in proper to say something relative to the effects produced by this intimate union.

With regard to connections—fympathy—or confent this vifcus has with most parts of the body, and the mind also, it is very close, known from a variety of appearances obvious to our
fenses; as well as the observation of the most judicious and sagacious practitioners.—A very late writer, of no small eminence,
says—"Nothing affects the mind more than the state of the sto"mach, and nothing draws the stomach into sympathy more
than affections of the mind.—This is evident from hypochondraw people, whose discase being chiefly leated there, has often
grievous effects upon the sensor commune," that part

where the fenfes transmit their perceptions to the mind-" or the " leat of it. the head -Does not, in shefe cales, the vomit-" ing of bile proceed from confent between the stomach and li-66 ver."

"The florach has a confiderable connection with the viscera " of the thorax, or cavity of the cheft-abdrasted from its con-" tiquity or diffestion .- In hypochondriacal cases, the heart and " lungs are variously afficied by the thomach-Convultions ". of the day higgin are often occidened by flight irritations of " the cords, or upper orifice of the flomach; -many other " type to me might be adduced in proof of the fame thing, were

" it necessary."

"The florach is connected with the abdominal vifeera; " and fire, with the inteflives; - focondly, with the other con-" tigrous, as well as more diffant organs -- as fpleen -- pancieus, " or sweetbread, kidneys, bladder, &c."

" This visites is connected with the extremities, as his been " experienced by the transition of the gout from the florach " to the extraordies, and vice verfa-Cold and heat applied to

" the extremities affect the flomach."

" It is connected with the whole furface of the body, and " feeningly with the extreme veriels every where .- This is de-" month abie by many observations .- for no fronce do some ali-" ments reach the icharach of particular perfons, than spots and " charefreness are occasioned on the fkin .-- VAN SWILTEN gave " lac's another inflence from crabs eyes .-- Dr. Culles had a " petient labouring under the hypochondriacel difeafe, who was " relieved of his complaint by pimples appearing between his " thus it and fing re-and as immediately opprehed by their re-" tropulfion or disappearing."

" Vanising from conduction of the cutaneous pores is anoof ther inflance of fuch fympathy .-- Such fymptoms, therefore, " are falely attributed to agriculty-and, upon the whole, we " may conclude, that the floward has a general confint with the

ss system universally."

If we consider what has been faid on the action of medicines, deduced from experience, found d on their effects, and the fympathetic power of the fremuch derived from the universality of its connections with contiguous, as well as diffant parts of the nuchine, we fool be able to account for a number of phenomeme which world, without fuch knowledge, appear miraculous, and exceed all bel'ef :-- and also be enabled to arrange medicines under their relieflive heads, all which will be extremely uteful in giving us the needlary information how, and in what cases they ought to be applied.

For

For as nothing can be done effectually in the living machine without the action of the vital principle--- and as we have no mode of regulating, or producing any effect upon that primarily, we are limited to direct all our operations on the parts of the conflictation, that they may be put into fuch flates, as to receive benefit from the falutary induence of that vital principle; --condident therefore with this idea we fault form our arrangement --- which we thall here concidely let down--- leaving the full explanation of each particular, till we come to treat of them under their respective heads.

The arrangement confifts of five heads:

First-MEDICINES which act upon the inert folids by means of the vital principle, under which will come

1. Nutrients

2. Astringents, and

3. Emollients.

Second-MEDICINES which act upon the living folids by means of the same principle.

Here will follow

1. Stimulants 2. Antispasmodics .

3. Sedatives 4. Errhines

5. Sialagogues 6. Expectorants 7. Emetics

8. Cathartics 9 Diuretics

10. Diaphoretics, and

11. Emenagogues.

Third-NEDICINES which act upon the fluids through the fystem.

To this place belong

1. Attenuants

2. Inspissant, and

3. Demulcents.

Fourth-MEDICINES which manifed their fentile action only in the prime via, or first passages, from the throat to the

Here fucceed

1. Antalkaline

2. Antacids, and

g. Antiseptics.

Fifth-MEDICINES which produce their confequences from external application, or on substances formed within the machine, and lodged without the verge of circulation-as

1. Enispastics

3. Anthelmintics

2. Plood-letting

4. Lithontriptics. Ra

This

This then the arrangement, we shall now proceed to explain the different parts of which it consists specifically.

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C H A P. 1.

MEDICINES which all upon the INERT Solids by Means of the VITAL PRINCIPLE.

§ 1. THE first of which are NUTRIENTS, from the latin word nutrio, to nourish.—These consist of all such materials as are calculated to be assimilated to our own specific nature, by the action of the digestive powers;—and the application of which so assimilated, repairs the waste which had been occasioned by the different operations passing on in the human machine—Hence, from their affording nourishment, do they take their name.

But these vary in feveral respects, either as to their being more onless perfected in themselves towards the nature of animal juices,—being of easier or more difficult digestions,—and also with

respect to their fluidity or solidity.

But though they are possessed of such various properties, they are all of them reducible to one state, in order to promote support to the animal; and the changes they undergo for this end are brought about by three different ways in the first instancefor first, the folid food is minutely divided, and has its texture in a great degree broken down by chewing, and faither reduced by the action of the stomach and intestines—this is called Com-MINUTION .- It also forms an union with the saliva, air, juices of the flomach and interlines—those of the liver and sweetbread this is termed COMMINTURE—and add to thefe the heat it receives, by which it is thrown into the third mode, or FERMINT-ATION -- and all this it undergoes in the first passages .- In the fecond, it experiences great divisibility, union, and mixture, in passing through the lacteal vessels, and by the force of the lungs; -and, lastly, it is brought into its most perfect metritive state by the impressive influence of the circulatory system upon their contained fluids. Hence we may concilely fay, that the affinilation of our food, for the purpose of nutrition, is performed by COMMINUTION-COMMIXTURE - and FERMENTATION.

And from this we may understand why all nutritious subfiances should be adapted, both with regard to their quantity and quality, to the strength and vigour of these powers collectively confidered and also are we taught what mischiefs often arise from the indifereet indulgence of fond mothers, and ridiculous nurses, who load those, who are weak in some or all these particulars, too freely with food, confidered in itself to be nutritions, in order that they may acquire flrength, and by thefe means destroy the effect, by large quantities being poured into the habit, which fmaller proportions of the fame food would have indisputably supplied; -for if the digestive powers are loaded with a superabundant quantity more than they can conquer, they become, as it were, difeased; and even the small portion of sool, to which their powers were adequate, lest in a state too imperfect for affording any nutrition. And this rule is extremely worthy of attention-for valetudinarians, however proper their food, should never take more than they can bear with the greatest eate. Indeed, in people recovering from very fevere illness, where the active powers of the habit have been greatly enfeebled, though it is always right to throw in food of the most nutritions nature, the most easy of digestion, and such as sits the most light on the Romach, still should we begin with small quantities, increasing them, and altering the food in proportion as the patient recovers firength; and this for very obvious realons, which will foon appear, as we examine the nature of our food more minutely than we have done in ipeaking of the non-naturals.

Though we have before faid, that perhaps our first food partook most of a vegetable nature, yet as all substances are the more nutritious, the more they approach to that of animal, a division seems here requisite, in order to snew the different degrees they maintain with respect to the nutriment they afford, and the proper modes of belt acquiring and applying them to the

constitution.

NUTRIENTS, therefore, may not improperly be arranged under three heads:

1. ANIMAL · 2. VEGETABLE

1. Animat . 2. VEGETABLE 3. MIXED.

Of the First-All those are the most powerfully, and most quickly nutritious, which have the least acidity, and are most claborated, or brought nearest to the nature of animal fluidshence the finer juices of the older animals become the most eligible, and these are best procured by slight boiling, or infusing, in such a liluted flate as the circumstances may require; that is, in proportion to the firength of the digestive powers :- for, as we confider the very fine juices of animal fubiliances the most natritious, because more readily assimilated to our own nature, for very weak debilitated habits, incluion is the most advantageous process, as by these means the subtler parts are preserved, which by long or quick boiling would be dislipated-but for those posfeffed

fessed of strenger directive powers, there is not so much necessity for this nicety.

Of these materials the most nutritions are, beef-and mutten-

tea -as the f are called -conde in the following manner:

Take of the law part of beef, or mutton, one pain ', our is into thin flices, and set the texture be well broken, by bracking it, then add to this one quart of boiling water, in an earthon or time vessel, keep it close covered till it is quite cold—or boil them over a quich fire, for five minutes: Separate the form, and decoot the clear liquor for the;—but fittald we repair more of the firenger parts of them, the liquor may bed ten, fifteen, or twenty minutes, and then proceed as before decoded.

The juice of the older animals are preferable to those of the younger, because those of the latter are more tenacious, and parteils are formula of the nature of our own fluids, confequently

rield, in that respect, to the former.

But when it is requisite that the flesh of animals frould be given in its folia form—that of young ones is considered the most proper, as their fibres are much more tender, most easily be from down by chewing, and yield their nutritious part more

read ly to the afting powers of digellion.

Milk, of which we have before spoken, pages \$2, \$3, though of a mixed nature, between animal and vegetable, we consider next; for it is a said only half perioded, and partakes, in some degree, of each of the other classes. We have, in another place, addressed our fentiments on the allowed degrees of preserves one species of milk has to enother, and have shown that of all a to be the best of any which could be procured in proper quantity—we shall here, therefore, only observe, where that cannot be acquired, either from the extensis of the expense, or the feareity of the animal, the following, called artificial after milk, is not an inessications: succedaneum:

Take of canded eryago read, one ounce; pearl barley, half an ounce; liquotive root, three drams; boil them in two pints of water till they are reduced to one, then add one pint of milk fresh from the cow, best them gently together, and threin for use. Itali a pint of this finald be drank, in general, two or three times a day; but should that quantity be too large, it may be reduced,

and repeated oftener.

The VEGITABLE CLASS has been confidered as more difficult of a limitation them either of the other, because it is more distant in its nature from our fluids; and perhaps those may be found the most natritious that approach nearer to milk, that is, more impregnated with all, not effential—facehasine substance—and a small portion of vegetable axid; for it is from these qua-

Litics

livies that all nutrition, in food of this fort, is supposed to be derived.

We have fooken here, and in another place, of these things, merely as appropriated to assord nourishment only to the animal; but they must be allowed to have other properties, which it is necessary to specify, as by these means different changes are produced in the constitution.

ANT ALL FOOD, particularly fith, is more fit melect and itcalefornt, because more prone to run into that it is, a look gametares pungent acrimomous falts, consequency becomes more heating.

VELVETABLE, more diluent and archivet, from its being me everlete with aqueous particles, and having throug properties, from their very nature, to become acid—hence more contains

ing.

Alilk, in this inflarce, partakes more of the latter, so it is fulljest, lete to utell, to become acid; polider, reportibles are more
emplicat and theathing, as mad of them should not only with
watery particles in great proportion, but this with their which
are mucilinglmous; and from to have it to is into or thickening
powers, from their mixture with the shuds. In one, it we take
in the account the quantity of fixed are with which they are replate, we may be convinced of their utility. I cannot the face's have
acquired too great degrees of thinners, from it become or accidental accimony. Milk also retains the face properties.

Readed—broiled—or iried animal food, is more timulant than boiled, and tams quicker into a date of patreleoney—from the discrept entimary processes they under to: the first being prepared only by the advan of frong heat, by which me as the finds are readered more pungent, and more highly dealercent—the last receiving a lefs degree of heat, and through an aqueous medicus, with which part of the animal jaices are mixed, repetered more dilute, and lefs highly subdilized;—but when stewed down, to a good the each each with the smids with which it is prepared, it as proaches nearer to the former, than when only influed, or good the mannered; nay, indeed, often exceeds them; and hence have also more distinct to be concocied or conquered by the digetive organs.

the rest and those which have underson functions, and those which have underson force cultury parts, because their fibrous parts are rendered more tendered. The which are most easily an missied, which contain the rest off, facularine fubriance, and a total portion of vegetation and; consequently those which have fullered maceration

and fermentation, as they become fweeter, and have their vifeid parts rendered thinner, and more fiexile, by those means are more cally digestible :- But we must in this place make one observation, which affords an objection to what is advanced .- There are another class of vegetables, which are supposed to be more nutritions-and there are the Fungs, or those fungous extuberances, called Minforouns, or Champignons -- Truffles - Morilles, named by Neko, the Villuals of the Gods --- they are confidered to afford more nutriment, from yielding, on their chemical decomposition, materials findar to animal food. Dr. Cullen fays, "if they are " truly vegetable matters, of which fome have doubted, they are very different from every other vegetable with which we are " acquainted -- for in the and part of their diffillation, without " addition, they give out no acid, but a large proportion of vo-" latile falt , --- and exposed to undergo a spontaneous fermenta-" tion, they manifest no assiscacy, but become immediately pu-" trid -- hence thew they a very near refemblance to animal fub-" flances; and it may be prefumed, that they are more confi-" detably nutritious than almost any truly vegetable substanc-66 es. 22

I have inferted thus much relative to these sungs, in order that we may be acquainted with their particular uses, not as correctors of animal food, like other vegetables, but rather as animal food ittelf, and correctors of acidity in the stomach---and on this account become a pleasing delicacy to such, who are sorbid the use of all vegetables, on account of a prevalent redundancy of acid in the suffages.

All the acrid---bitter---or highly flavoured vegetables, as they confirt of parts which are not readily subdued by the digestive powers, but pass in an unaltered state in the course of circulation, come more properly under the class of medicinal substances.

Under this head of Nutrients we shall have no occasion to supply a general catalogue, for all those things sall under this class which we employ as sood, and include whatever we cat and drink for the purpose of supporting the animal machine, and repairing its waste.—And if we revert to what has been said in treating on aliment, p. 70, and on those liquids we in common drink, p. 80, with what we have here advanced, we shall be supplied with knowledge sufficient properly to direct us in our selection; for I am sully persuaded, that we oftener err by the quantity of food that we take, than the quality; as it is certain, such is the power inherent in our habits, that though our food may be in its own nature in any particulars dissimilar, still it we only supply such quantities as are judiciously approportioned to

our digestive powers, whatever the aliments on which we feed, they will all be reduced to the same state, adapted to the preservation and nourishing of the machine; we shall therefore advert

to our next subject.

§ 2. ASTRINGENTS, from the Latin word astrings, to bind, or condente, which are all such substances as by their action render the softer parts more compact, give a greater firmhess to the solids, and a cohetive tenacity to the sluids. Their particular power in condensing the solids is obvious from the effects which they produce in tanning, or making of leather.

BOERHAAVE was of opinion, that, when applied, they bring two diffast parts of a moving fibre into closer contact, and into a more firm cohelion, and this by infinuating between each particle

of the fibre another of the same kind.

Dr. Cullen thinks, that as a fibre is composed of solid and shuid, the cohesion of the whole is increased by diminishing the watery, or by addition of the solid substance: but is rather a fa-

vourer of the first opinion.

With respect to the addition of any solid substance, it may be the case when acting on the mert solids, free from the influence of the vital, or nervous power; but in the living machine, we cannot suppose medicines of this class derive from this source their operation; for under those circumstances the medicine must be universally diffused, and come in contact immediately with the parts upon which it acts.

This, therefore, cannot be true—if we confider the very fmall portion of those which shew their general astringent power, when taken upon the stomach, and the very quick mode in which they produce their effects; besides, the variety of sub-stances which manifest a constringent ession, when the machine

is variously affected from different causes.

In proof of this we shall mention some few particulars:

ALUM, when given in doses of a few grains, has been known to stop profuse bleedings, arising from a relaxation of the solids,

in a short space of time.

WHITE VITRIOL—BARK—STEEL—and some other of the strongly acting medicines, have caused the cessation of other discharges, by invigorating the system, and not from the locality of their application.

PUNCENT STIMULANTS have produced inflantaneous

effects, though not durable, in cates of laxity.

SEDATIVES, or those medicines which manifest their effects by alleviating pain, and abuting the quickness of vascular S action.

action, have early shewn their power in the abatement of acrid defluxions.

Now it appears evidently that all these produce their influence by their action on the stomach sympathetically conveyed to the machine in general, and to the parts particularly affected, which, as being in a more morbid state, they experience more powerfully.

With regard to the fluids, those medicines which have the power of sheathing acrimonious particles, from whence ditcharges have proceeded, may be considered as astringents. In fine, whatever will promote a contraction of the folids, or coagulation of the fluids, come under this class.

But it must be observed, that many of these excite their action instantaneously, but do not give the system the power of continuing the effect;—whilst others act more slowly, still occasion, as it were, a permanency to that action in the constitution.

Volatile substances—essential oils, and others of this class promote very quickly the influence of the vital powers, by which means the constitution very early is made sensible of their power; but as soon as they cease to act, which they do in a short space, the morbid essects, they seem to have conquered, are reproduced.—Alum also labours under the same disadvantages.

But the more flowly acting aftringents continue their force longer, and appear to give a stronger and more lasting cohesive power to the particles of the solid sibres, as if they increased their attractive insuence inter se.

From this knowledge we shall be able to deduce a mode of prescribing, of infinite use in practice, which would at an earlier period have been confidered as contradictory, and ridiculous, because deviating from the commonly received opinion—for, from what has been advanced, we see that volatiles and aftringents may be judiciously united, and will be the means of affisting the effects of each other, by producing them sooner, and making them more lasting—as I have often sound in the course of practice, particularly where the constitution has been desective in vascular irritability, and nervous incitability; for, by adding volatiles and pungent stimulants to bark, in many cases, the wished-for effects have been produced, which could not be attained by bark alone.

To there, where the humors are acrimonious, fleathing medicines, called demulcents, may be joined;—and fedatives occasionally had recourse to, where spasms attend relaxation of the folids.

But we must here observe, that where the aftrin ent faline mine als, such as those of steel—white, and blue vitriol—the preparations of lead—alum, &c. may be thought proper, volatiles must not be joined with them, as they will occasion a decomposition, and render the astringent power of the compound mineral less active, nav, perhaps, destroy it altogether.

I he catalogue, prefented to us by various authors, is extremely copious, but we shall content ourselves with a sew, which are

in general allowed to be the most efficacious.

ASTRINGENTS from the Mineral Kingdom.

IRON, filings, or rust prepared-dose from five grains to 30.

Ammoniacal iron,
Tartarized iron,
To grains to 30. Vitriolated iron, 3 grains to 20.

Tincture of muriated iron, 10 drops to 60.

ALUM, burnt, from 2 to 15 grains.

Whey, from 2 to 4 ounces.

Curd, externally.

CHALYBEATE WATERS-

Tumbridge Hampstead Pyrmont Islington, &c.

ZINC—Calcined zinc, 2 grains to 6.
White vitriol, 1-2 a grain

White vitriol, 1-2 a grain to 2.

COPPER—Blue, or Roman vitriol, 1-4 of a grain to 2.

LEAD-Water of acetated litharge, from 1 to 3 drops.

Acetated ceruis. 1-2 a grain to 1 and 2.

From the Vegetable Kingdom.

Roses --- Conferve,

Infusion,

TORMENTIL ROOT-In powder,

In decoction, KINO --- powder,

MADDER --- powder,

In decoction.

1 or 2 drams to 1-2 an onnce. 2 ounces, or more.

8 grains to 40. 2 to 3 drams.

1-2 a scruple to 2 scruples.

20 to 40 grains.

I ounce in 3 pints boiled to 2 --dose, 2 ounces.

WOOD SORREL-Conferve. WATER-DOCK ROOT-

In decoction,

1-2 a pound to 6 pounds of water reduced to 4---dose 8 ounces.

CUP Moss .-- in decoction, faid to cure the chincough.

QUINCES --- Marmelade. MULBERRIES .-- Syrup.

MADLARS --- Fruit, not to be eaten before long keeping.

SLOES .-- Conferve, dose 1 or 2 drams.

NETTLES.

NETTLE, flinging --- Juice, or decoction, 2 to 4 ounces. BEARS WORTLE BERRY, the leaf---

> Powder. 15 to 30 grains.

Decoction or Insufion, I or 2 drains in a pint and 1-2 of water reduced to one pint--dofe

from 6 to 8 ounces.

TINCTURE OF CATECHU, which was called JAPAN EARTH, 1, 2, or 3 drams.

POMEGRAWATE--In decoction, An ounce to a quart of milk and water reduced to a pint.

OAK and ASH BARK --- Slight decoction, gradually increased. SIMAROUBA, or GUIANA BARK --- Powder, from 10 to 20 grains. Logwood --- Extract, 10 to 40 grains.

Decoction,

i-2 an ounce to a pint and I-2 reduced to I pint---dose gounces.

GALLS---externally, 1 part of powder to 8 of hog's lard. All the acids, vegetable as well as mineral---all the bitter Stimulants --- Sedatives --- and all the flimulant Bulfams. We shall not supply any formula here, from the different combination of these articles, but specify them more particularly, when we come to treat of those cases where such applications are required.

Though we have let down the doles according to what is generally held proper for adults, expecting they will be varied according to the age and conflitution of the patient, and the exigence of the case to which they are necessary, one observation it is proper to submit here, for the information of the reader; which will apply in all the other departments on the subject of

medicine, as well as in this place.

That, as the same dose of any active medicine will not be adequate to produce the intended effect on all constitutions, the dose specified being too large for some, and for others too small---we should always begin with a very moderate dose at first, and increase it gradually, till the full proportion can be discovered; thence we shall be certain of deriving every advantage which the medicines can procure. Befides, we shall avoid producing too violent effects upon those habits which have a natural antipathy to any particular medicine, which can only be discovered from experience.

§ 3. EMOLLIENTS --- fo denominated from the latin word

emollesco, to grow foft or supple.

There act in a mode opposite to the preceding class, inasmuch as attringents give firmness to, these induce a relaxation in the Solids.

They have been called RELAXANTS, and may be confidered as fuch, it we include their mode of action in a double fense;

for

for though they have been thought to produce such a change in the folids as occasioned them to be extended, more than they were before, without rupture; thill they have been acknowledged to reduce a part of the body, indurated and compacted in one uniform bulk, into its state of contained liquid, and containing solid.

It has been conjectured, that emollients all chiefly upon the folids, by introducing their particles, which confift mostly of the watery, mucilaginous, and oleaginous kind, between those which compose the folid sibre, thus forcing them tarther from their sphere of attraction, and bringing them nearer to a state of studity; for solids and suids differ but in proportion to the stronger or weaker attractive power of their component parts.

But notwith handing this may be the case in many, nay, perperhaps most instances, still they may produce their effects genearly over the system by their action on the stomach; for it that organ is relaxed, so will all the other parts, dependent upon it, without having any watery particles introduced to weaken

their texture.

FEAR and GRIEF are powerful relaxants, but these may be said to affect the mind and vital power, and hence produce their effects.

INEBRIATION has with numbers the same consequence, but this arises from the relaxed state of the stomach, which is soon taken off by stimulating that organ, as has before been specified in the beginning of this work.

Women in general experience similar mischiefs, from repeatedly drinking bot tea, and other liquids under the same circum-

stances.

EMETICS given only in small nauseating doses, enervate, and relax the system from the same cause.

SEDATIVES (chap. 2. § 3.) may also be considered in some de-

gree under this head.

Those, however, which produce their effect upon the machine in general by sympathetic power, will be considered under different heads. Under emollicits we mean to rank only such substances as all from their watery, mucilaginous, and oily particles, of which they consist; and these prove most effectual on the parts to which they are more immediately applied, which Dr. Cullen conceives to all in one of these two ways; "the one by being infinuated into the substance of the solid, and thereby

- " diminithing the denfity of the whole of the mixt, they dimi-
- " nish its force of cohesion. The other is, when, by being infi" nuated into the interstices of, or spaces between dry particles,
- " they diminish the friction which might otherwise occur, and

thereby

"thereby render the whole more flexible. The former feems to be the operation of water, the latter of mucilage and oil."

And these three seem to include all the emollicits, if we were to examine the articles, multifarious as they are, which constitute this class. Indeed, for internal use, the writer above specified rejects the whole, and gives the presence to the insusion or decocion of lintseed; which is fully as efficacious as any other.

And here, though we must observe, that as in many sebrile complaints the use of emollients seem absolutely necessary, where the degree of sebrile assection runs very high, we are rather to adhere to those of the watery, mucilaginous and farinaceous kind of the vegetable class, than to those abounding with oil, or animal substances; because, from heat, they are apt to grow rancid, acquire acrimony, and hence become too stimulant, and much increase the tebrile effects we wish to restrain.

The catalogue of EMOLLIENTS furnishes us with a great variety of substances, out of which we form the following selection—which, as they are so very simple in their own nature, and produce no powerful action in the habit when taken internally, require not to have any particular doses annexed to them.

EMOLLIENTS from the Animal Kingdom.

Weak broths, crude yolks of eggs, honey, milk, cream, butter, fuet, fat, spermaceti.

From the Vegetable Kingdom.

The feed of quinces, line, fænugreek, white poppy, wheat, rye, oats, barley, particularly the farina of these, figs, raisins, dates, marsh-mallows, balm.—Decoctions or infusions of these are pleasant and esticacious for common drink.

Oil of almonds, elive oil. All bland expressed oils.

Bete, fpinage, white lily root, boiled onions. Liniments, continents fomentations, or cataplasms formed of these substances, which we shall, in their particular places, hereafter specify, have similar effects—perhaps the warmth with which they are applied may have some gently stimulating powers, and hence prove also in some degree efficacious in those complaints for which they are advised.

To these we should have added the warm vapor of an animal recently killed—for we have instances of the arm, and other parts, put naked into the body of an animal immediately after it has been slaughtered, receiving great benefit, in cases where relaxing applications seemed requisite; and where many of the others had been tried without any advantage.

But the most emoltient of all is VAPOR, either received by the mouth,

mouth, or injected by glyster, moderately warm---and indeed it is almost universally esteemed so, whether applied internally or

externally.

These form the class, it has been said, of medicines which act upon the inert folids by means of the vital principle. That aftringents and emollients may act upon the inert folids also, perhaps, without the aid of that principle, in many cases, when brought into contact with them, may be allowed --- but that in the living machine they do, is much to be disputed --- and that the nutrients cannot, is evidently clear; for if that principle is defective by which the nutritious matter is applied to particular parts for their support and reparation, the matter itself will avail but little. This feems clear from our observations on paralytic limbs, receiving such slight degrees of support, and of being fearce at all benefited by the application of affringents or emollients, where fuch deficiency takes place. However, in a work of this nature it feems not necessary to go too minutely into a subject of so much intricacy; it is enough for our purpose to point out effects produced by the particular materials specified, without being very folicitous of investigating the precise mode by which they are accomplished.

Our fecond position leads us to treat

C H A P. II.

On MEDICINES which act upon the LIVING SOLIDS by Means of the SAME PRINCIPLES.

THE first of which are,

1. STIMULANES, so called from the Latin word fimulo, to prick or goad:—and these are all such medicines as increase the oscillatory or vibrating motion of a sibre, or excite the action

of the moving fibres in the living animals.

How stimulus increases action we cannot point out the precise mode; but this we know, that all those things w'ich can increase the influence of the vital powers, either diffusively or partially, are real stimulants, and as such must be considered.

They have been concluded to be of two kinds—DIRECT and INDIRECT. The first are imagined to act directly on the moving fibres;—the second on the organs of sense, by which means a perception is excited on the common sensorium, which acting there, determines the nervous power to flow more copiously in-

to the whole, or particular parts of the fystem. These are the most common and universal. But stimulants do excite motion in the moving sibres themselves independent of any connection with the common sensorium; for if the heart, or some other of the mucular parts, are separated from the body, they may have their action excited by the application of particular stimuli: this then is a certain proof of an irritable power inherent in themselves independent of connection with any nervous power. Find again, it is as clear, that a stimulus applied to the stomach will distric its power to the whole habit; or if to a part, other parts far distant will experience its instruction, as in cases of general heat being occasioned by the use of conducts or volatile substances—voluting from irritation of the kidneys, &c. Hence then we may fairly conclude, that action is produced by sympathy, as well as local stimulus.

Bendes, in many of these actions, mental power is the first cause, as we may discover in longings, define for that food of which we see others eating with uncommon relish; by which means the stomach is stimulated, and a strong sensation of hunger is induced, which did not before exist—weeping also from forrow,—vomiting and sickness from recollection and resection, &cc. These are incontentable proofs of the truth of our after-

tions.

Hence, then, filmulants may be properly divided into three classes:

GENERAL—and these are such materials as are taken into the stomach, and communicate general assection through the system, owing to the connection of that organ with every other part of the machine.

LCCAL-where irritation is produced on the part affected.

MENTAL—where, without the application of any material fubflauces, applied to the flomach, or any other part, fimilar affec-

tions will be produced by the powers of the mind.

Indeed, almost all active medicines might be ranked under the head of stimulants, were we to class them a mording to their known operations; submitted to different divisions under this general term, agreeable to the effects they produce—but we shall confine ourselves to such subtiances as invigorate the system, increase the action of the nervous and vascular power locally or universally,

And from hence shall we see their use, by facilitating the passage of the blood through the parts in which it moved to slow, or was morbidly obthrusted by augmenting the force and a terity of the circulation—they quicken the senses where most dly affect ed, route the mental faculties when in a lethargic state, and exhilirate a desponding condition.

They

They reflore the powers of motion where morbidly defective,

and also the thrength of motion where morbidly weal.

From their ules have they been die ded by some authors into fuch as are diffulable-goodid -and toowal by their actions thet is, fuch as have their action conveyed over the furtern-lach as exhilitate the ipirits-and fugh as are applied to feme particu-In parts morbialy affected. Examples of the FIT IT have we in

Volatile alkaline falts, hieranouty, lieut.

Of the SECOND in

Cinnamon, livatmegs, Wine.

Of the THIRD in

Multard, Cantharides, Preparations of moroupy.

Thefe we have specified for the east of felecting the particular Substances, according to their uses, from the following exturgue of

STIMULAN IS - most of which, when taken internally, have a power of increasing the force of circulation, and investigating the Tyffera -- and fome proving also more isomediately cordial, by revivifying the spirits.

Of the FIRST CLASS are

Horse-radish Mustard

Garlie Onion

Leek Turpentine Rallams of Copniba, Gi- Walte Pobin

lead, Peru Gum Guaiacum

Lavender Rolemary Pennyroyal Pepper-mint Carraway

Cardamoin feed Cinnamon

Callia wood Mace

Muffard Horte-radiffr Cow-itch

Gantharides Euphorbiam

Preparations of mercury

Contrayerva Snake-1905 Cafearilla Volatile falts,

Of the SECOND!

Cloves Pepper Capticum

Grains of paradill

Wine Effential oils

Those used topically are Volatile alkaline falts

> And there made either into ploisters. epithems, cataplalins, ointments, or liniments.

The following, though truly confidered as patieffing a greater or lefs degree of thimulating power, produce not the effects before specified so sensibly:

Zedoary Quaffia wood

Genfing
Cafcarilla
Common and Roman
Willipedes
wormwood
Camomile
C

All the NUTRIENTS and ASTRINGENTS are of this cials; and many others of the fucceeding clothes, though thin ulant, are more particularly appropriated to other purposes, under which heads they will be arranged. The catalogue here given will be fulficient to answer the purposes to which slimulants, merely considered as such, are calculated to be of any use.

But as some of them have been thought, by very respectable authority, to possess some peculiar powers, and are easily attaina-

ble, we shall beg leave to specify them.

Ill'Shot' has been reputed to be attenuant, refolvent, pedoral, in coughs and althmas occationed by vifeid phlegm; thought to produce expedieration, drank in form of tea, and fweetened with hency; and to have the power of promoting the menfes attributed to it.

GROUNTHIVY, drank in the same form, or in decoction, has been exceeded corroborant, aperient, and detergent, used also in coughs and anomas, to attenuate viscid phlegen and mucus, and to brace and firengthen the vessels of the lunes; formerly much o deted in consumptive cases, and ulcers of the kidneys, as an efficacious remedy.

PENNYROYAL. This has been confidered cordial--of great the in hydreric cales---to increase the tone of the follow---and the chief vehicle for other medicines, to which were attributed the power of promoting the monthly discharges of the semale sex. Indeed, in this last case, by some practitioners, it is held

in no little estimation.

SPEAR-MINT. To this has been affigued cordial virtues, and a powerful refusince of vom ting.--tea made of this helb often answering this purpose, where every other effort has fail d. It is recommended in florulent coses, fluxes, worm cases, and namy other disorders; and, though confidence as a stimulant, it is not heating, a peculiar advantage it possibles over many other of the accidial class. Pepper-mint seems also to possess the same power.

HEDGE-

HEDGE-HYSSOP. This is named a hydragogue, or an evacuator of watery humours from the body--hence useful in dropfical cases, and also worms, from its purgative power. In substance it is said to promote vomiting, sweat, and urine, to be of service in maniacal and venereal cases, after mercury had been given freely without effect---the dose, in powder, from 10 to 30 grains.

DANDELION. This has been confidered as peculiarly ufeful in viteral obfiructions, particularly those of the liver, as it feems calculated from its frimulant deobstruent powers, to promote bilious discharges---and, from experience, has been concluded highly efficacious in all biliary infactions of the liver.

WAKE ROBIN. Much has been faid by men of the first medical authority in favour of this medicine, and used to be recommended as promoting wa cry exerctions, quickening circulation in cold phlegmatic habits, and in different viscid phlegm.

pniegm.

In deep feated, fixed rheumatic pains, it has been given with fucceis, in doles of from ten grains to a feruple of the night root

two or three times a day.

GEOFFROY and BERGIUS speak highly of its powers, as refloring lost appetite, curing intermittents. In the jaundice, greenfickness, hysterical, hypochondriacal, and other diseases, it has been found useful. In cases sito of obstinate head-achs, which return at intervals, without sever, mixed with alkaline aromatics and absorbents. It is given in the following manner:

Take powder of wake robin, vitriolated tartar, of each ten grains powdered rhubarb, five grains. If these purge too vio-

lently, the quantity of the arum may be lessened.

GEOFFROY used to give it in doses of from half a dram to a dram; and by being boiled in vinegar, he says it becomes pow-

erfully diuretic.

LEWIS gives from ten grains to a scruple of the fresh root twice or thrice a day, made into a belias, or emulsion with oily, or mucilaginous substances—it generally produced, whilst the patient was warm in bed, a copious sweat. It is now kept in the shops made into a conserve, half a dram of which may be given

as a dose, and gradually increased.

Thus much has it been thought necessary to say of simulants, in order to furnish a general idea of their extensive utility, under proper management; but as their uses are so multifarious, and almost the whole catalogue become repeatedly under our consideration in the succeeding part of this work, wherein we shall be more particular in the specification of their doses, and the pecu-

liar cases to which they are applicable, we shall quit this part of our subject, and proceed to our next head.

§ 2. ANTISPASMODICS, derived from antispassional, medicines which take off spassion, or what are commonly stilled convulsive affections of the human machine.

Though there certainly appears a difference between fpafm and convellion, as they never run one into the other; yet there have been many difference relative to the definition, fo that their diftinctions may be properly marked.

Some have faid, if the folids are drawn into involuntary contractions, and they do not continue long, but go off, and frequently return again, these affections are termed convulture—but if

they remain a confiderable time, spasms.

GAUBIUS defines a spalm, a violent, involutary, inordinate action of the moving fibres; and says, they who distinguish a spalm from convultion, call the tast a continued, the latter an alternate contraction of the muscles.

They have been diffine withed by the terms tonic and clonic, from the Greek words terms, to stretch or fix, and kicines, to shake: Hence, by the former are to be understood, such spasms as are continued; by the latter, such as are tremulous;—or, in other words, spasm we would understand those muscular contractions which, once excited, remain in that state of contractility for some length of time—by convulsion, such as are megular, and have relaxations and contractions alternating quickly with each other.

Though this diffinction is necessary to be known, for the better understanding the authors who have written spicematically on the subject; ver still it will be of little use in a practical view; as we shall find, according to the cause, what will be useful in one species, will also in the other. Indeed, there are such a variety of causes, so very different in their own nature, which may produce spalmodic or convultive asketions, that there will necessarily appear to be a great diversity of measures which ought to be tanked under this head.

an over different by emollients, from acrimony, by demulcents, or facile medicines as theath the offending particles; from acidity in the bull paffages, by abjorbent, or alcalifect fulflonces, which, by uniting with the soid, form a third fusitance, inoffensive in its action, and thus remove the cause; from wind, by those materials which disports wind by their stimulating powers, and are called carminatives; from worms, by those stilled anthelmenties, or destroyers or evacuators of them, &c.—but these are confidered, in regard to their known action, under their respective heads, calculated to operate against, and remove the assing cause.

But what we understand in this place by antispasmo-

aids, are tach modicines as are ferviceable, from their influence on the nervous energy, or increased nervous power, by removing spasmodic contractions taking place in different muscles; and by allaying convultive agitations, where the cause is too latent to be differented precifely; or, it conjectured at, too obdinate to Le removed by medicinal applications with any degree of certainty; to that the conflictation being relieved from the violence of their effects, nature may be left more at liberty to exercise her power for the extirpation of the aperating morbid cause.

And in our administration we must observe, where the conflitution appears to have an inhammatory disposition, we must select fach as are the least thimulant; where relaxation or debili-

ty feems prevalent, those which are more powerful.

Belides, as the class of antilipalmodies confit of medicines diametrically opposite in fome of their femilile properties-fome being highly feedd-others as greatly odoriferous-and are confidered as medicines of equal efficacy, we might suppose that there is no limitation in our felection—but we shall find that some will be efficacious in one conflitution, and not in another-tor where facilly agree, the odoriferous ones will, very often do not-and to on the contrary; therefore, where one class has been tried ineffectually, we must have recourse to the other. And here also it will be uteful to obterve, that very often, for want of giving thefe medicines in full dofes, their effects have not been produced; confequently it is proper to increase them, very often freely, till that point can be properly alcertained.

The following tapplies the uteful catalogue of ANTISPASMO-

DICS.

From the Vegetable Kingdom.

PENNYROYAL-

Infusion-Distilled water-

Etiential oil,

Rus-Extract. SABINE - Extrast, Page 151.

Powder, ASA FOETIDA-

Tindure.

GUM AMMONIAC-

Milk of.

GALBANUM -- Tindure, C. MP11 2-

Mixture.

from 1 to 5 drops.

from 10 to 20 or 30 grains. from 6 to 20 grains.

20 to 30 grains.

from 5 grains to 2 ...

dram to a dram. from 10 to 20 grains.

1 ounce to 1 and 1-2.

from 10 drops to 65 from 5 to 20 grains.

I-2 an ounce to an ounce or more.

Spirit, for external application.

VALERIAN—Powder, Tincture, Volatile, from 1-2 dram to 2 drams:

1 to 2 drams.

1 to 1 and a 1-2 or 2 drams.

From the Animal Kingdom.

Musk—
Mixture,
Castor—Fonder,
Tincture,

from 10 to 20 grains. from 1 to 20 grains. from 20 to 60 drops. from 2 to 20 grains.

Ammoinia prepared, and SALT of HARTSHORN, SLIQUOT,

Liquor, from 20 drops to 60.
Oil, or animal oil, from 5 to 30 drops.

From the Fossile Kingdom.

AMBER-Oil, rectified, from 5 to 20 drops.
Salt, purified 5 to 15 grains.

Though this falt, notwithflanding it is fometimes given in liver derive cases, more properly belongs to the diuretic class, as allowed to be a promoter of the urinary evacuation.

Rock Cin-externally applied, as is also the oil of amber, in rheumatic and paralytic cases.

All the effential and empyreumatic oils are of this class.

ETHER—vitriolic, { externally applied—dose from 20 to 60 or 80 drops.

Spirit of vitrielie wther, 20 to 60 or 80 drops.

To two articles, which we have facilited here, belides their anatilpalmodic power, others have been attributed of no lefs confequence—which, as medicines early attainable, we shall particularize.

RUF has been recommended in cases where viscid phlegm has abounded, and the circulation of the blood been languid. As an attenuant, resolvent, and deobstruent it has been much extolled, also in hysterical cases; and as a promoter of the mentional discharge. BOERHAAVE had the highest opinion of it. Gullen says, it is certainly an useful medicine. It is best given in conserve, from half a dram to half an ounce, two or three times a day.

SABINE. This is confidered as a warm aperient medicine, increasing glandular fecretions, and a powerful promoter of the menses. It is a very heating and aerid substance, and therefore requires much caution in the administration. Dr. Cultus thinks it more powerfully determines to the uterus than any other medicine—of which truth experience has often convinced

ms. Dr. Hous, out of five patients inhouring under cliffredtions of the mentional discharge, cured three, or rather four, by giving half a dram of the powder twice a day, thou he a dram is the dote commonly recommended. Of the extract, from fix to twenty grains is a dote. Externally applied, it has been ctreemed a powerful defroyer of fungous exceedences, in taking of venereal warts, where other applications have failed.

§ 3. SEDATIVES. This is derived from the Latin word fedo. to addage, reft, calm; and they properly belong to fack inblances as diminish motion in the fullem, and the force of the

moving powers—and also alleviate pain.

Hence, whatever diminishes motion in a part, or in the whole of the fyllem, whether by rendering it infeatible to any painful fimulus, or by arreiling, by any means, the impulse of the vatal powers, may be called led after. All medicines, therefore, which could the habit, or take off inflammation—fome of the acids—neutral falts—eviollients—aftringents—and at tispasmedies, may properly come under this head, as they diminish motion in the fairem—but in this place our objects are finited to the confidential of fuch fubilances only as are thought particularly to

act on the nervous power.

With regard to the precise mode of action of those idefied to form this class, we can fav very little, as our knowledge of the nervous fullem is to incommete. However, thus far we may veature to affert, that they act either by having a possiliar power of reflexining the violence, or rendering more equal the usegular motions of the nervous power, by their influence on the common tenforium, and its appendages primarily, (50) or by Shanting the irritability of the living folds, and thus preventing the same power from exercising too foreibly its influence. And is they do either sympathetically, by having their action more differively communicated from the part they first effect; or by the locality of their action, when they are applied to the parts therafelves; for it has been moved, that the heart taken out of the body, has been made to ad by the application of some filreular, and confequently, that this power of contraction was dependent on fomething foreign to the influence of the common tenierium, or nerves, which was certainly inherent in the mussolar fibrer themselves; and if opium is diffolved and thrown n, on the heart to teparated from the machine, no action from itior dus will take place - which proves, that, by means of this fedative folution, irritability is destroyed.

and it is commonly known, that it a finall dose of opium be taken on the stomach, it will alleviate pains of the extremities,

and other parts diffant from that organ, very expelitiously, as

well as procure sleep.

If then we take the influence fedatives have on the common fenforum, and the irritable power, inherent in the mufcular fibres of the fyriem, we find be policifed of the most certain known idea of the operation of medicines of this class; and be furnished with the knowledge where, how fur, and in what note, the application of these rubbleness may be ferviceable, or hurrful, in to take as they are as fedatives; but it must also be remembered, that fome of them are stimulants:

Hence then, in all cases where there is too great a rapidity in the circulating fields, or pain, or spalm from an inflammatory cause, they would be hurtful, otherwise they are in general fervices bie. In cases also of influction, or strong of ruction, which sometimes happens in the langs, though attended with spalms, they must be contiously used. But where neither of these objections occur, they may be allowable, and attended with use in diminishing the force and calcrity of the blood's motion, where must be augmented, or the imperus of the blood against parts straightly augmented, in abating violent pair, and pecuning sleep in cases of preternatural watchfulness, in remaining inordinate motions; and moderating excessive evacuations.

But where the circulation is preferrationally ranguish or there is a lethargic or drowny disposition, or a high drained of to per in the Lyslem, to them in these cases we should not have re-

courfe.

According to the purposes they have been given to office, they have received different appellations—it to alleviate pain, ared no; if to abute it by their demaleent power, paregorie; if by bringing on super, narcotic; if by inducing lacep, properly; however, their action is similar, and requires no fach difficultion. They are more properly divided into such as produce steep, as opinin, heabane, poppy; and such as cileviate from their cooling property, as neutral falts, acids.

Our catalogue of SEDATIVES, of which opium is the pria-

cipal, confifts of

Poppy—Syrup of, Opium—purified,

Tinclure,

Camphorated,
CICUTA—Hemlock,
Inspirated juice,
Powder,

2 drams to 1 ounce or more.

from 1 to 2 grains.

(as a addative, from 5 to 10 drops—

as procuring fleep, 10 to 25.

from 5 to 60 drops.

2 grains and gradually inercased.

HENBANE-

Powder, Extract.

TOBACCO-

Smoke, Infusion, Glyster, Extract. I grain to 5 and more.

See page 155.

Of all these medicines, however, we think it necessary to give a

more particular account-and, first,

The POPPY HEAD is in use for making a fyrup, possessed of virtues to relieve pain, and procure sleep—for these purposes, it is chiefly given to children, in doses of from half a scruple to half a dram or more; and it will be efficacious sometimes, where opium and its preparations are apt to disagree with the constitution.

It is also used for making fomentations for alleviating pain, particularly after proper evacuations in inflammations of the eyes and breafts.

OPIUM is anodyne, from its relieving most painful affictions -bypnotic, from procuring fleep-incraffant, from thickening the humours-diaphoretic, from increaling perspiration; and, joined with ipecacuanha, antimonials, camphor, volatile falts, and fuch like, the most powerfully so of any medicine with which we are acquainted-fedative, from allaying the too great irritability of the nervous lystem-and the most essecious antispasmodic in the materia medica; -taken in toollarge quantity, it renders the nervous fystem so totally insensible, produces such general relaxations; that lethargy, convultions, and death, are the confequences; but, in a variety of cases, given judiciously. it is one of our most noble remedies, particularly where nervous incitability, or thinnefs of acrimony of the humours are too prevalent in the constitution, admit too great degree of fever, or heat, or fixed obstructions, do not contra-indicate its nife.

Hence the benefit arising from its administration in hysteric and hypochondriae diseases; in convulsions from violent pain; in too great watchfulness, at the latter end of fevers, small-pox, and mealles; in coughs, from acrid, the stating defluxions; in looseness, and dysenteric complaints, called bloody fluxes, very often. It has been said to cure the venereal disease. That in intrible habits it assists the operation of measure the preventing the too powerful exertions of merce. It caus, alleviating pain, and promoting insensible perspiration, will not be denied; but it

being of itself curative, I cannot believe—though, after the humours have been rendered too thin and acrimonious by the use of mercury, I will not dispute its power; for I have seen its good chesis in totally removing what have been called rheumatic pains from that source.

Afa-fætida joined with opium is faid to weaken its narcotic effects, and prevent that flupor, heavinefs, and vertiginous affec-

tions, which opium is apt to occasion after its operation.

Besides, this medicine not only alleviates pair, and takes of fpasmodic affections, when administered internally—but when applied externally, as in sementations, cataplasms, lotions, lini-

ments, or injections, it produces the fame confequences.

them lock has been used much in scrophulous, schinnons, and cancerous cases, so in the last highly recommended by Dr. Storck, as a fuccessful medicine, though not answering the expectations of the physicians of this country; notwithstanding which, I hestate not to declare, I have found it in some degree serviceable in schirrouity—in scrophulous tumours, joined with bank, it has been useful; as also in ulcers, and soulness of the bones from that cause: in some obstinate rheumatic cases it has been efficaciou, and I have evidently seen it produce good effects in the chincough. Joined with mercury, it has been useful in veneral complaints, and has been successfully given in some entancous disorders.

It is commonly given in doses from four or five grains to a feruple, and pushed on to one or two drams in twenty-four hours half an ource has been given in that time; and, in one or two cases. Dr. Mouro fays, he has known an ounce. However, Dr. Cullus remarks, and that with great propriety, that if some semible effect is not perceived, when the dose is about twenty grains, he should dispute the goodness of the medicine, and have

recourse to different parcels of it.

HENDANE. This has been confidered as a parcetic, not producing heat like opium; and, belides, it is, in large dofes, laxative—evident advantages over opium. In pripirations of the heart, it has been feld to be useful—in cases of mania and convulsions, in doses of the extract from one grain to five. Though STOREE extols the remedy in spatimodic assections, and profuse bleedings; yet, from Dr. Heme's experience, it appears in these assections not to produce any youd essentially in sections for the grains, nay, often it has been obliged to be increased to sitteen or twenty; though, in full doses, it is more apt to occa-fion delirium than opium. Sometimes it will agree where opi-

am will not; and it is not, except in large defes, that its aperi-

ent effects are very remarkable.

From a case related by Sauvages of its caring a cetaract, I once, under those circumstances, tried it with evident utility; but during the trial, my patient lest town, nor have I heard what was the ultimate result. However, such were its estate under my inspection, that I should, in ail cases of recent extanactous ap-

pearances, recommend the trial.

TOBACCO, though in common use, and certainly confidered as a luxury, from being chewed, taken in inuit, and fmoked for pleafure, is a deleterious and noxious herb, policy d firmaly of those powers producing stupor; hence confidence as a marcutic. It is highly flimulant, a powerful emetic, purgative, and promoter of the fallvary discharge; - applied by way of poultice to the stomach, we are told it excites vomiting, and products the firms effects applied to wounds. In the iliae pathon, incarcerated ruptures, and obtlinate coffiveness, thrown up into the bowels, by way of smoke, or in strong infusion, it has proved chicaciousand also in cases of worms, particularly those very finell white worms, called afcarides, which affect the lower part of the large bowel, called rectum, occasioning itching in the anns :-- Induct, it is faid that no remedy is more powerful in opening the bowels, procuring stools, and in deltroying and bringing away these worms than this-though it must be observed, that given in this method, it will often produce great fickness and vomiting, especially if pushed far into the intestinal canal.

In Sweden it is a domestic medicine, and often given to vemit and purge, in the beginning of patrid severs. An extract made of it, which renders it more mild in its operation, has long been used in Germany as a pectoral in coughs—and, of late, in this country, recommended as a powerful dimetic, and of great use in drophes;—but its inclicacy in small doses, and from its producing severe sickness and vomiting, in large ones, such as were sufficient to make its dimetic effect apparent—from the nauseousness of its preparations, and the roughness of its action; it has not yet been brought into general use internally. Externally applied, Brackes considers it as efficacious in discussing that

tumefaction of the prepuce (55) called phymonis.

§ 4. ERRHINES. This class of medicines, so called from the Greek en in, and rin naturn, the note, or STERNUTATO-RIES, from producing theezing, are all such as thimulate the internal membrane of the note, occasioning a flow of mucus from thence, or causing that action from whence they derive their name.

They act altogether by their flimulus; and though they have

been faid to have effect upon the fluids, they do it in other way, than by increasing the action of the folids on their continued liquids. Indeed all evacuants are general stimulants. Even these medicines carried into the stomach, or thrown upon other parts of the machine, would produce such effects as were consistent with their irritating power, and might vomit, produce gentle sweat, or urine, or become expectorant, according to their elective properties.

The use of these medicines, though much is fissed on by the ancients, have, by the moderns, fallen into neglect, though they may in some cases certainly be of no small service, either in unloading the parts contiguous to the nose, or removing obstruc-

tions by the shocks given to the system in sneezing.

Where the mucus fecretion is defective in the nose, producing a morbid diminution, by determining the sluids there, they might be of service; or by occasioning a derivation from parts morbidly affected in the neighbourhood of that organ—also by agitating the system in general, and by obvious nervous affections of the convultive or spassmoodic kind—but where there is great sulness of the habit, morbid debility of the effect uncommon sensitility of the note, or ulcerations of the part, and those which are contiguous, the use ought certainly to be forbid.

From confidering the operation of these medicines and the effects likely to be produced by the application, we may learn how they become useful in rheumatic affections of the head; for temporary relief has not only been acquired by them, but the rheumatic disposition conquered—the tooth-ach also, and other rheumatic affections. In chronic and long-continued inflammations of the eyes, in opacities, or cloudiness of that part of the eye called cornea, beginning cataracts, and in some cases of deafness.

In fome complaints of the head of the spasmodic kind, they promife much utility; but in all full habits, or in cases where there appear any preternatural load in the head, they are not on-

ly doabtful, but may fometimes become dangerous.

And notwithflanding it has been afferted, that their use tends to remove lethargies, epilepties, passies, apoplexies, head-achs vertigos, catarrhs, gutta, serena, &c. and may, in some particular species of these complaints, where the nervous system is primarily affected, be attended with no small advantage; still should there be sullness of habit in people thus afflicted, prudence should direct us to have that sullness taken off before the application of sternutate ics. During their use, we should carefully avoid cold, for that has sometimes produced unpleasing effects;

-they

—they should also be administered at intervals of one or two days, and then the patient should be kept warm. From the general shock they give to the system, they have been said to be more beneficial than vomiting, and hence also greatly useful in removing the remotest obstruction.

ERRHINES confilts of two classes-

MECHANICAL,

MEDICINAL.

The First are, dust-feathers-animalcules vellicating the membrane of the nose, and blood accumulated, either from obstruction or inflammation—whence it happens that in a beginning catarrh, the mucus of the nostrils usually flows pretty plentifully.

The SECOND-

Hyffop Savoury Bete Betony Marjoram

Orrice-root
Pellitory
Pepper

Euphorbium

Assarum Herb Massich Tobacco Snuff Euphorbium
Turpeth Mineral
Corrofive Sublimate.

White Hellebore

The first are esteemed the mildest, the seven succeeding more active, and the three last the most violent in their operations;—but corrosive sublimate is considered as invested with the most superior power; for patients who have applied it, have sneezed for some hours, although it has been used in very small quantity.

There are different ingredients added together to form HERE SNUFF.

As the dried leaves of Afarabacca

Sweet Marjoram
Syrian Herb Mastich
Dried Lavender Flowers—

equal parts of each—but three parts of assarum and one of marjoram, beat into a une powder, are superior to most of those told under the name of HERB SNUFF—and indeed are the more agreeable and essicacious errhines. If taken to the quantity of sive or six grains at bed time, they are said to operate the succeeding day as a powerful sternutatory, inducing frequent sneezing, but still more a large discharge from the nose—and are often employed with great advantage in cases of obstinate head-achs, and instammations of the eyes, resisting other modes of cure.

Sometimes in oblinate deafnels they have been given with fuccels, with the addition of a small portion of turpeth mineral, and repeated at shorter or longer intervals, in proportion to the effect they produce of greater or less violence in their operation.

§ 5. SIALAGOGUES—derived from the Greek words, fialon, faliva, and ago duco, to draw forth, comprehend all fuch medicines as produce a flow of faliva into the mouth, from the

glands named falivary, there fituated.

They have been divided by fome authors into three classes. The FIRST-fuch as immediately act upon these glands, as fomentation, friction, and suction, either internal or external of these parts; hence, moreover, cataplasms applied to those glands, called parotid, from their situation under the ear, and chewing tobacco moisten the mouth;—all pungent stimulants also.

The SECOND, are all fuch as occasion a flow of faliva into the mouth, by intercepting a flux of moisture into other parts; for it is observable, that if any of the viscera should be observed, as the liver, spleen, pancreas, at the same time the kidneys, or intestinal duels, then is the mouth always moist—whence hypochondriae people act called SPUTATORES, from their spitting so much; and, therefore, whatever prevents a secretion of lymph in those places, should be essented sialagogue.

The THIRD CLASS takes in all these substances which are supposed to break down the susquinary mass, and by that means supply the mouth with too great a proportion of sluids, thus distolved.

Of this tribe quickfilver is the principal, and may be applied

in various modes.

From its external application a falivation may be raifed, though in its crude flate—but it may be applied in form of liniment of funigation; for if twelve grains of quickfilver are placed upon a fire, or a heated iron, they will emit a fincke, which, received by the nostrile, in two or three days will occasion a spitting. It may be taken internally with the same intent, and succeed, if given in a small quantity; but if in too large, it is apt to pass off by the bowels; if hardled much, and for a long continuance, similar effects will be produced, as we learn from gold-beaters, who make great use of quickfilver, falling into falivations.

Quickfilver formed into a falt by fublimation, if taken in small doses, if applied externally to wounds or ulcers, or if attracted by the note, has similar consequences, from its reception into the

habit.

It was the opinion of BOERHAAVE and others, that all these effects were produced by diffolving the studes, either by its mechanical action, or by its diffolving or putrescent power.

Flad

Had not these doctrines been previously refuted by such arguments as are uncontrovertible, from the confiderations, that mechanical force never divides mixts, but aggregates only; that, from the minuteness of the division of gold, even it may be made to become incapable of overcoming the cohelion of water or ipirit of wine, and be fulpended in them-and ails that the fragilnels or the quantity introduced would be inadequate to produce the effect. And, with regard to its different or purrefeent power, that, during the operation of quicklifver on the habit, no lymptoms of putreleeney appear in any part of the fydern-that there is no alteration of the blood in that respect during a fallivation, but its texture appears as throng then as at any other time;that fallivation is attended with an inflammation, and the blood thews an inflammatory crust; and, finally, that after the operation of the fallivation is over, no taint appears in the blood, but, on the contrary, the perion is in better health than before, and gives marks of a firmer flate of it :- one fingle inflance would be sufficient to overturn them, if we consider that a few grains of calomel has in many conflitutions raifed a falivation very faddealy, which has continued for fome days, nay weeks. Inflances of which have fallen within the course of my own observa-

I cannot myself doubt of its producing its action in the salivary glands by the means of its elective stimulus, though it is capable of exerting its stimulus in other parts of the machine, as on the stomach, intestines, kidneys, and peripiratory vessels, producing, according to the parts aslected, vomiting, purging, discharge of urine, and gentle perspiration.

Indeed, upon the whole, it should be considered as a simulant in general, in particular, a salivary one, and an evacuant, more peculially of the serous or lymphatic suid, or both; and one of the most universal aperients and deobstruents we have in the

whole catalogue of the materia medica.

In its combined state, forming metallic salts, quickulver fooner exerts its activity on the system, but less certain, I think, in its escent;—it appears more eslicacious, having its parts only divided by some unchnous or oleaginous substances; and, perhaps, its virtue depends upon its being so entirely unconquetable by the assimilating powers of the constitution, and capable of such minute divisibility, for it will pass through any body except glass.

Quickfilver, though here ranked as an internal fialagogue, or a promoter of the exerction of faliva, because its elective power feems to be more determined to the f-livery fystem, then any other part of the machine, may fairly be confidered as an univer-

fal flimulant, deobstruent, purgative, and general evacuant, increafing the whole of the excretions of the human body.

It was thought that, from the great discharge it produced from the falival glands, and the fector accompanying it, that it diffolyed the texture of the blood, and disposed it into putrid acrimony; but experience proves the case to be far otherwise, as we have proved above.

The great effects produced by quickfilver feem to proceed from its increasing the whole of the animal excretions, and thus carrying off the virus of the pox, for the cure of which it is the most remarkable and certain ;-and, indeed, it has been, and still continues to be, by many, confidered for this disease a SPECIFIC; -but as it will not, by itself, in all cases, cure that complaint, nor prevent the venereal poison from taking effect, even in con-Attutions loaded with it, that idea must fall to the ground.

Though quickfilver, in its original state, is inactive respecting the human machine, and only has been given in this state to conquer obstinate obstructions of the intestines, though inessicaciously, still from mechanical division, as united with viscid, oleaginous, or unctuous substances, rubbed down with dry powder calcined, or united with different acids, forming mercurial falts, it has been rendered extremely active; and though preparations of this abound, the chief use are confined to a few.

GUMMOUS mercurial pill, MERCURIAL pill, QUICKSILVER acetated,

> Calcined, Muriated, or corro- from 1-8 of a grain to 1 grain.

five fublimate Mild muriated

CALOMEL prepared, QUICKSILVER with chalk White calx of quickfilver, or white precipitate,

Sulphurated quickfilver, or æthiops mineral,

Red fulphurated quickfilver, or factitious cinnabar,

Red nitrated quickfilver, or red precipitate,

Vitriolated quickfilver, or turpeth mineral,

Quickfilver ointment,

from 20 to 30 grains. from 8 to 12 grains. from 1 to 6 grains.

from 4 of a grain to 2 grains.

1-2 a grain to 2 grains or more: from 5 to 20 grains.

too acrid for internal use.

from 10 grains to 40.

used chiefly in fu migation.

used as a destroyer of fungous flesh, or for dressing venercal ulcers.

from I grain to 4.

from external use-from 1-2 2 dram to 2 drams.

Now

Now feveral of these preparations are appropriated to different purposes. The MILDER SORT, as alterants—

Gummous pill Acetated quickfilver
Mercurial pill Quickfilver with chalk;

or the more active preparations in very minute dofes, which in this view are confidered as the most efficacious.

As a purgative, calonel claims the preference, joined with thinbarb or fome other of that clais—in dofes of from 3 to 8 or ten grains; and in fmaller dofes as decourant and alterant.

In venereal cases, the gum and mercurial pill-scious)—corrotive sublimate difformed in brandy—calcined mercury joised with opium—are chiefly had recourse to.

. Against the itch, the white precipitate, made into an oint-

The quickfilver ointment is also used for missing a fallivation where thought necessary, or loading the conditation sufficiently without producing that essect, for the cure of venerual complaints.

Indeed calomel, and fome other of the active preparations, have proved efficacious in the early flages of inflammatory complaints of the breaft, brown plants, &c. when given freely, in repeated dofes, fometimes with, formetimes without opium; which has been, in these cases, rendered more effectual by joining small doses of the antimonial powder along with it. In spasmodic complaints, united with campitor and opium, they have been faild to be effectual—as also in drappical cases, given in conjunction with diureties and atomatics, particularly the fault pill. But these we shall particularize more minutely when we came to treat of directes to which they are appropriated.

Now, from keeping in view the peculiar virtues of this meditine, the reason will readily occur why in a cariety of complaints it is so beneficial—as in the venereal disease—glandular obstructions—cutaneous complaints—obstructed menses—dropfy—worms—forme inflammations of the lungs and other parts, properly applied, and judiciously united with other well-adapted remedies.

Thus much have I thought requisite to is relative to this for extensively useful a remedy; though in this place we should confider it merely as a prometer of the fallvary discharge, in order that we may be better premared for discovering its utility in a variety of different cases, on which we shall in future treat. Here it stands as a shalagogue, and the only internal one of which we make use—the others in this catalogue are shiled topical, from their

their premoting the flow of faliva from external application—the principal of which are

Squills Cloves
Tobacco Mafter-wart
Angelica Pellitory.

From what has been faid, we find readily discover their utility to confid in diminishing the force of the blood against parts morbidly affected in the neighbourhood of the falivary glands; and also the action of the vessels when morbidly increased in the neighbouring parts, as in some cases of rooth-ach and rheumatic affections; and in promoting the circulation of the blood freely through the falivary glands when morbidly obstructed there:—Besses, as they so freely promote evacuation, they will be beneficial in evacuating morbid accumulations of ferum; in producing a thorough change in the sluids of the body when morbidly vitiated.

But when there appears to be an uncommon determination to the failvary glands—any præternatural fensibility in the glands when the ferous part in the circulatory fluids is defective—or there is a high degree of inanition, or general debility of the fyitem, we must avoid using them.

6 6. ENPICTORANTS, so named from the Latin word expedience, to throw out of the breast, or expedience; and are all such subdances as expel morbid matter through the windpipe adhering in its branches, called bronchia (28, 29.) of the lungs.

To promote which purpole, several particular are necessary to be observed. It is required, first, that the matter contained within them should be rendered moveable, and capable of being expectorated, taking care that the most fluid part should not be dislipated, less the remainder should be less to viscid, and not easily pumped up from the lungs;—hence medicines to heating and stimulating are hurtful;—Second, that the passages of the lungs should be open, cleansed, and subricated;—Third, that the exerction of the offending matter should be promoted, which is best performed by coughing, to which end proper stimulus, and proportionate strength are required;—Fourther, that the obstructed vessels should have rest, by which means they may be relaxed—for should they be continually irritated, the humour from the giands of the windpipe would be ejected with a sort of pain.

To accomplify the FIRST intent, all aromatic bitters, and, at the fame time, mild oleaginous fubflances are necessary, fuch as hore-hound, hysiop, elecampane, pennyroyal, valerian, &c. and fulphyreous medicines mixed with alkalies---all fized faponaceous materials, as Venice foap in pills, or niixed with milk;--- all volatile oily foaps, and volatile fixed falts, and, in general, all

diluents and stimulants mixed together.

For the SECOND purpose, we must apply to aperients and detergents, as oil of poppies, almonds, olives, honey particularly, as it is aperient, inciding, attenuant, detergent, and lubricating—here also belong emultions, soaps, yolks of eggs, with oily substances, saccharine substances, at least in small doses; likewise ballisms, as that of turpentine, Peru, Gilead, Copaiva, &c. which act both as stimulant and lubricating—to these we may add all relaxing and emollient decostions.

For the THERD are reful all those which excite a cough, as wine, vinegar, acrid spirits, slerautatories, squills, gam ammo-

niac, &cc.

And, for the LAST, demulcents, anodynes, and narcotics, are proper, of which the principal is opium; for when the wirdpipe is once exceriated, it is easily thrown into violent fpassis, and cough, which cannot be restrained by that powerful sedutive.

However, we may in general observe, where there is no inflammatory tendence, and the moving powers are torpid, some of the stronger stimulants are extremely useful, and are the things which chiefly contribute to promote expectoration; but they should be very cautiously used in discases of the breast, and particular care taken, that the habit be free from any inflammatory disposition, or, at least that no inflammation is fixed there—for where these take place, relaxing the vessels, and taking off the spasses is all that is wanted, for in such constitutions the mucus ittels supplies sufficient irritation, either from its actimony or weight, or distention of the cells of the lungs.

From what has been faid, the utility of expectorants appears --- when the ferretion of mucus in the lungs is obviously diminished, by promoting that fecretion, and rendering the mucus thinner, when too thick or vifeid--- where the exerction is infufficient, by evacuating morbid accumulations of mucus in the lungs, and supplying irritation to that organ when defective.

When the lungs labour under a state of morbid infensibility, by removing that, and promoting a free circulation through

them, when it is there morbidly impeded.

But when there is a high degree of increased sensibility in the lungs, and an uncommon quick excretion of mucus from them, the stimulant expectorants ought to be prohibited; and when there is too great a state of torpor, of the relaxing ones we should by no means make use.

Our general catalogue of Expector Auts, of which we shall furnish, for the reasons above advanced, a proper division, con-

filts of

Hyssop, Hore-hound,
Ground-ivy, Pennyroyal, Colt's foot,
chiesly used in infusion
or decoction, and
fweetened with honey
Garlie
Mustard
Horse-radish
Onions
Leeks
Ballam of Copiava

Gum Guaiacum Squills
Myrrh
Afafætida
Gum Ammoniac
Opium
Tobacco fmoke
Acid vapours
Blifters
Warm baths to the feet
Watery vapours received into

Now, as we find expectoration is to be promoted by different means, agreeable to the cause acting in the lungs; and as one selection here has such different properties, all of which are calculated to promote the defired end by judicious application, a division of them, agreeable to their powers, becomes necessary. First, into such as act by stimulating the lungs taken internally.

The infusions of Hystop,

Hore-hound, Coltsfoot,

Pennyroyal, made into tea, and sweetened with honey. As well a man a man and a man and a man and a man a man

Mustard, Mustard, Mustard, Morfe-radish, Onions, Leeks, Balsam Copiava, Gum Guaiacum—

Powder,
Tincture,
—MYRRH—Powder,

a clove of it taken now and then in substance, formed into pills, or-made into syrup.

eat plentifully with other vi-

Dole, 20 to 40 drops on lugar.

from 6 to 20 grains. f-2 a dram to 1 dram. to grains to 60.

SECOND, fuch as ad from taking off spasmodic affections—
As A sætida

Gum Ammoniac,

OPIUM

See Sedative.

BLISTERS,

WARM baths to the feet,

WATERY vapour inhaled into the lungs.

THIRD

THIRD, such as irritate— TOBACCO smoke,

ACID VAPOURS.

FOURTH, such as subricate and relax. See the catalogue of Demulcents, all which belong to this place.

§ 7. EMETICS. This is a Greek word, from emeo, vomo, to vomit; by the Latins they are called nomiteria, and are all fuch substances which, by their action, cause the itemach to reject its contents upwards.

The effects produced by this action have been divided into eight heads; in confidering which we shall be enabled to perceive the utility to be derived from the application of these remedies; on which, as we go along, we shall furnish some remarks necessary for the more clear elucidation of different parts of the

subject;

FIRST. "Vomiting evacuates the contents of the stomach itself; though it is not easy to know when that is fully performed. Many have got into a method of promoting sew repetitions in vomiting, and giving small ablutions; but it has by others been thought that frequent ablutions are required to clear the solds of various matters, or mucus, which may be detained within them."

If we wish to evacuate the contents of the Romach completely, frequent and copious ablutions are certainly right; but it is sometimes necessary to give gentle shocks only to promote some particular purposes, and these must be often repeated, so that it would be hurtful to push vomiting to its extent, as, from violent straining of that organ, it would become too relaxed, and our intent frustrated; for it is from the repetition of the operation gently, not from unlocaling the stomach, success is expected.

SECONDLY. " Vomiting causes a flow of liquids to the Ro-

mach, clears it, and emulges its mucus glands." And.

THIRDLY. "It not only emulges the mucus follicles of the flomach, and promotes a flow of galdric liquor, but has the famo effect on the neighbouring glands, especially the sweetbread and the liver."

FOURTHEY. "Whilf the vomiting continues, it not only inverts the regular motion of the fromuch, called perefiable but also of the intestines, which pour out their mucus to be carried

to the flomach, and evacuated with its contents.

"Hence do we find vomits ufeful in loofencies and dyfenteries; but, independent of that, they are beneficial, more probably, as purging the intestines, occasioning a greater flow of liquous into the intestinal canal. If the vomiting ceases, the increased fecretion is earlied oil by sool, so that at any rate the adherent foulness

foulness is washed away, by squeezing the tract of the intestines."

FIFTHLY. "Vomiting squeezes, and occasions a contriction of the whole abdominal viscera, especially the mesenteric glands, (40) and in consequence pumps the whole Lymphatic system;—on this account increases absorption, as well as from its evacuating property; hence for these purposes emetics answer equally well with purgarives, and may be useful in dropsical cases."

But here we fooded be carried no firong vifceral obfiructions hath taken place, or any great acrimony in the humours, and tenderness of the vascular fallem, for in these cases they may be

productive of the most fatal effects

SIXTHEY. Dr. Callen thicks, "vomiting has the power of affecting the kidneys, to as impration of the kidney will produce vomiting, fo, on the other lizard, it is reafonable to thick, that vomiting may also act upon the kidney—hence it would feem

useful in propelling stones in the kidneys."

Notwithstandian forms have recourse to such a practice, and it appears imitative of nature, still I should conceive it aimore a caps a dangerous experiment, always doubtful, and often not necessary; for if the stone should be so impacted with the kidney that it cannot pass, irrata ion on the part would be strongly increased, of course pain and instammation in similar proportion, most likely absorbe, and their contequences. Besides, we can never be certain whether the stone is of such a size as to pass through the areters (50) by any propultive force; and if it should, by relaxing the areters as much as we can, by proper remedies, we are more likely to produce the effect, and certain to avoid all danger from too rain a practice;—however, if the attempt at probulion was to be made, every means should be previously used to render the passages as distensible as possible before the trial:—but of this we shall have constituted to treat more fully in suture.

SEVENTIELY. " But the effects are extended, perhaps, to the vifcera of the cheft, as expectoration has been promoted by vo-

miting."

ETCHTHEY. "It also increases the confluction of the fauces, and forcibly emuls on the whole of the fallway glands. It has had the effect of those medicines called mailicatories, which, by chowing and increasing a ditcharge of fallwa, relieve theumatic affections of the head, tooth sen, &c.

"By preventing infpiration, vomiting occasions a reguigitation of the blood against end of expiration. The accumulating blood, which usually happens, produced by vomiting, is only momentary, and may be ioon counterpoifed, as will be feen by confidering its advantageous effects or the fyshem in general.

" Daring the time of vomiting, the pulle is finell, weak, and

ntermitting; but when it is over, is the flimulus continues, the inculation is increased, a fullnet, and totales of the pulle, a determination of the fluids to the flutace of the body, and fivent; —this last may be supposed to preceed from an increased circulation, but Dr. Cullen thinks it may also from the content of the least, and surface, and that antipassocie virtue takes place it regard to the extreme vehicle, which is illustrated from his, that case it combined with othe artificial modes, (14%, as many, mercas the ower, so that content as experimental configuration or weat, "than each when alone."

There are their primary on as, which, if we coulder closely, will be productive of a variety of oriens, infinitely a greater number, that by any class or medicines with which we are equanted; and indeed from them I have less the most irrures ale conequences account. Not but I think their use, in many cases, hould be considered with the nicest courten; for advantageous s they are, when properly applied—in the brands of ignorance,

ir inconfiderate rathrefs, they become too often fatal.

If we consider the general shock which exercises give to the ivtem, the evacuations they produce from the shomach, and the
states they have upon the nervous power, we shall be convincd of their utility; by restoring equality to the circulation, proucing lymphatic absorption, and removing obstructions in the
yiern of blood vessels—and in these senses they may be considerd as irritators of the babit;—as evacuants, from clearing the stosuch of its contents, and morbid accumulations or secreted
natters lodged there, and discharging also throus accumulations
a different parts of the machine:—as antispessmedics, from sinmulating the nervous system, and the moving powers through
the machine in general, and also obviating violent affections of
the nervous power.

But in all cases of ruptures, or relaxations of containing memranes—in local inflammations of the internal viscera—a high egree of morbid debility in these—and in fixed outfructions, incompactable by the force of the circulation, it has been adv f-

d that their use should be avoided.

Still, notwithfranding all these prohibitions, so apparently well ounded, from the consideration of the action of emetics, to have been administered in cases of schirrhous viscera, to all inflatorations, and supernatural efficients of blood, the last the two latter they should never be assempted without the sleeding; though perhaps hamourha as any now and class quire this operation; but of these there are very rare inflators,

as they are almost constantly attended by an inflammatory dispofition of the constitution.

In all congettions of the head, they are faid to be dangerous. in apoplexy, palfy, and in fmaller collections in the veins of the brain. They would, doubtless, be extremely dangerous where thefe maladies arife from too great fanguinary plenitude; but where from mere weakness of the nervous lythem, or inability of the moving powers, I should prefer their use to other remedies, at least on their first appearance; nor should I belitate in preferibing thera in ferous collections, where I was not afraid of any great relevation of the veilels, or faftem of the folids.

The closs of EMETICS in use are not namerous-indeed, three or four, where we confider their action only in this point of view, are fufficient, arranging them according to their mode of operation, or peculiar appropriation. The state of the state o

If expeditious vomiting is required, without much regard to more extended action,

White virriel,

Blue vitriol,

Infusion of tobacco,

Dofe, from 10 to 20 grains. 2 to 6 grains. 1 ounce to a point of boiling water-1 ounce or more

g to 20 grains.

2 to 12 drams.

to a dose, will be suffici-

If fomothing more is wanted, particularly a determination of the fluids to the fkin, Dofe 1 grain to c. Tartarized antimony, 3 drams to 6. Antimonial wine, Wine of tartarized antimony 1 dram to 2.

I pecacuanha -- Powder, Tincture,

And in venereal cases, Vitriolated quickfilver, or Dofe I to 4 grants.

turpeth mineral In large doles, some of the vegetable bitters and exthattics

come under this class, as do also squills, afarabacca, fort-glove, mustrad, and horse-radish. Strong insulions of the two last are given with faccels in torpid, cold, plaleguatic babits.

Syllematic writers hence, from their peculiar power, have

divided them into

IRRITATING EMETICS—as

Tartarized antimony, Vitriolated zine, or white vitriol, Quickfilver, or turpeth mineral.

EVACU

F.VACUATING—as

Ipscaeuanha, — Afarabacca, — Squalt.

HEATING—as

Muftard, — Horic-radiffi.

NARGOTIC—as

Tobacco, — Fox-glove.

(8. The next fet of medicines in our catalogue are CATHAR-TICS, so named from the Greek word carbairo, purpo, to purge,

and comprize all fuen medicines as evacuate by ftool.

Purging, fave BOERHAAVE, is an evacuation of all those things which can be thrown out of the body by find from any part of the machine. And most authors have been very profix on this subject, as the operation seems to be, and really is, of such naterial confequence to the confliction.

However, we that content outflives with a more concile view of their effects, and from thence be fufficiently empowered

to deduce their utility.

By their operation they unload the intellines, and increase the motion of the bowels downwards; by which means they clear the intellinal glands, and derive a greater quantity of inquids, into them; they also empty the framuch downwards; they evacuate the pancreas and liver, and affect the spleen, and all the viscera of the lower belly; they promote the absorption of watery and other thin shids, slagnating in any cavity; and, by continuance, purge the whole body; but in this last ca's induce debility, it too long persevered in; hence are presented to other evacuants.

They are apt to produce inflammation in the parts on which they immediately act. They cause revultion from the head, by determining the blood into the large artery of the body, called the defeending aorta, (2), 30) and hence may be useful as promoters of the mentional discharge, washing of virulence in gonorthea, in olders, by evacuating the system in general; and in those of the interior parts, by causing a greater flow of liquids to the part. They excite, or, at least, increase inflammation in the intestines, may some propagate the same over the system; and, when thrown into the blood, are most of them expectorant and discretic, crusing evacuation of phiesm from the chest, and brine through the kidneys.

Now these purgative effects are produced chiefly by fact things as irritate the fibres and muscular parts of the intestines; but pussions of the mind will also promote intestinal discharge; and found will have that occasioned from smell alone, others from cutornal application, some from the diminusion of insemble perspection, but this happens in a most thick atmosphere, and others

from

from eternal motion, as that of a thip or carriage; -upon the whole, it is telerably conclusive, that purging arises from intef-

tinal stimulus, either mental or corporeal.

But, notwithflanding the use of purgatives are so very salutary in their different degree, according to the causes requiring them, yet, by being too frequently renewed, they are apt to weaken the tone of the intestines, and indeed their sensibility. Hence are produced, if we add the consequences of evacuation, often irregular spasmodic affections.

Dr. Cullen flys, that all purgatives are endowed with an inflammatory actimony, not only exciting it in the part to which they are applied, but acting in the fame manner, as poisons; their flimulus, extended to the fysical, produces and aggravates fever, and an inflammatory dispelicion; and as it is chiefly directed to the rectum, they increase the piles, and extend their irritation to the passage from the neck of the bladder, called arethra.

We are led to discover, from the concise view we have taken of the subject, from whence their utility arises;—First, as evacuants from removing any morbid retention of the contents of the stomach and intellines—diminishing the quantity of circulating study, when too abundant for the state of the system at the time—and carrying off morbid accumulations of serum. Deconder, as semulants, by promoting the free circulation through the intessines in those cases where it is morbidly impeded—diminishing the force of the blood against parts morbidly affected—removing torpor in the muscular sibres of the intessines, by stimulating them to regular and two constant action.

But we find that fome of these have, besides the powers commerated, those which are cooling, estringent, and emollient.

Pence, should there be in the bowels any high degree of irritability, and the circulation should there be morbidly accelerated, of the shinulating class we should make no ase—if the circulation should be uncommonly flow and languid, those which are shiled cooling will be improper—if habitual costiveness be an error of the habit, the assemble must be wrong—and where uncommon relaxation of the intestines is prevalent, the emollient ought not to be applied.

The whole catalogue of PURGATIVES are EVACUANTS, and in this view differ only in degrees of power. The MILDEST of which are all acefcent fruits.

Of the SECOND ORDER are

Tamarinds, Callia, Sugar, Honey, Manna, Water drank copi-

copiously, Milk whey, Butter-milk, Spinage, Bete, Cabbage, Succory, Dandelion, Endive, Lettuce, Celery, Afparagus, Artichoke, Muinrocm.

Of the THIRD

All mild animal and vegetable cils, Venice Soap, Mustard, Sulphur, Animal Bile, Gum Guaiacum, Tartar, fixed alkaline Salts, neutral Salts, Magnelia, if it meets with an acid, not otherwise.

Of the FOURTH-or more acrid,

Aloes, Rhubarb, Senua, Jalap, Scammony, Buckthorn Berries, Gamboge, Hedge Hytlop, Batter Apple, Wild Cucum-

Of the FIFTH—or most acrid,

Solutions of Gold or Silver in particular acids; but these, from the violence of their effects, are out of ule.

Emetics also got into the bowels prove purgative.

But as we find great use may be derived from a judicious selection under particular circumstances, we shall pursue the subsequent divisions.

COOLING APERIENTS AND PURGATIVES.

Acescent Fruits

Sugar Honey

Water drank copiously

Milk Whey Butter-milk.

Spinage Bete

Cabbage Succory Endive

Lettuce ,

Afparagus TAMARINDS-

Cassia-Electuary, TARTAR-

purified, Cryffel of Tarter,

MAGNESIA.

Salary Artichoke Muihrooms.

These may be considered as food proper to affift in promoting the defired purpose.

taken in ptisan or decoction. doie, 1 to 6 drams.

} 1 to 3 drams or more. 10 to 30 grains.

NEUTRAL SALTS.

ACETATED Kali, or diaretic hale, from 1 to 2 drams. TARTARIZED Kali, or folible To car, 2 to 6 drams. VITRIOLATED Kali, or polichreft Salt, I to 3 drams. Y 2

TAR-

TARTARIZED Natron, or Ro- 6 drams to 1 ounce. chelle Salt,

VITRIOLATED Natron, or Glau- 6 drams to 1 ounce. from 4 drams to 1 ounce.

Ersom Salt, SULPHUR-

The Flowers washed, from I icruple to a dram. Precipitated, or Milk I 1-2 feruple to I 1-2 dram. Sul, hur,

EMOLLIENT APERIENTS AND PURGATIVES.

All bland animal and vegetable Oils, the most powerful of which are

GASTOR Oil. Dose, from I dram to 1 ounce. and, except this, few are given alone with this intent, but only to affift in the operation of other purgatives, where lubricating or relaxing materials are requifite. from 1-2 an ounce to 2 ounces. MANNA.

ASTRINGENT APERIENTS AND PURGATIVES.

Though almost all the smart purgatives leave the body costive after their operation is over, the aloctic medicines excepted, fill the reftringent power, when wished to succeed, is chiefly confined to

RHUBARB-Powder,

Ruffia, East India, Vinous Tincture, Spirituous Tincture,

1 feruple to 1 dram. To to go grains. I-2 an ounce to 1 I-2 ounce.

2 drams to 3 or 4 for children; to adults it is feldom given

with this intent.

Roses - Syrup of

STIMULANT APERIEN'S AND PURGATIVES.

MUSTARD-

Intufed in wine, ANIMAL Bile.

Gum Guaiaeum-Powder,

HEDGE Hystop-

Powder-Extract.

BITTER APPLE-

Compound Extract,

WILD Cucumbers-

Inspissated Juice,

a table spoonful gently aperient, 1-2 a dram to a dram.

from 10 to 20 grains.

5 grains to 10.

10 to 25 grains.

I-2 a grain to 3.

ALOES-

ALOES-

Wine of Aloes.

Tincture of Aloes.

Alocue pill with Myrrh,

SENNA -

Ponde; E. v 120%.

SENNA- inclure,

Compound Powder,

Powder, Extract. Tinctura,

Compound Powder, from 10 to 15 grains.

Powder with Aloes, 5 to 10 grains. with Calomel, from 8 to 20 grains.

BUCKTHOON Barries-Syrup,

from 5 to 15 grains. 6 drams to 2 ounces. 6 drams to 2 ounces. to to 30 grains.

from 1 dram to 2 foruples.

from 2 drams to 1 ounce. from 1 to 2 feruples.

10 grains to 20. 10 grains to 20. 2 to 3 drams. 5 grains to 10.

with calomel.

from \frac{1}{2} an oune to I ounce. f from 2 to 10 grains-better mixed

Before we close the account of Cathartics, it may be of some use to observe: that, as in all constitutions, and all diseases where too great an intestinal discharge does not constitute the complaint; and a moderate evacuation from the bowels is absolutely requirite; or in some a more copious one, it is necessary that we should be acquainted with the particular nature of the purgative employed: that whill we are attempting to be of fervice, by promoting the intestinal discharge, we may know what shid each medicine will evacuate the most powerfully, and not in other respects be detrimental to the constitution by an improper choice - as in cases of inflammatory complaints, it would be very injudicious to order purgatives highly filanulant; fo in those of bilious obstructions of the liver from thick viscid inert bile, to have recourse to the serous and lymphatic purgatives would he injurious; as by thele, though the intention respecting the operation might be right, we should rather increase the original cause of the malady, by an improper election of the medicines of which we made use. However, here we only mention the necessity of fuch a specification, which we shall point out, on freating of particular defects of conflitution, which require the necessary discrimination.

o. DIURETICS, taken from the Greek word dioures, permeo, to make water, are all fuch fubflances as cause urine to be

fecreted

fecreted by the kidneys, and excreted by the bladder, which laft

is the repository for that sluid.

Notwithstanding the great labour different authors have beflowed in properly selecting this class of medicines, and the considence with which many have spoken respecting their operations, still their effects are indisputably uncertain.

How fome things pals off by urine so immediately after be-

ing taken into the stomach, is still a matter of dispute.

Some aftringents have been confidered of the diuretic class, from their action; and doubtless have produced this way very good effects, as the leaves of the bear's wortle berry, and bitters; nay fome have publicly declared the power of aftringents in expelling a calculus. As diuretics act not by diffolying the blood, but by their local or sympathetic simulus under some circumstances, I see no reason why aftringents may not become diureties in relaxed and torpid habits—many of the operations of the animal economy may be produced by relieving the parts from any desect they may labour under, which desect may retard, or prohibit their action.

Palfy of the kidneys will hinder a fecretion of urine; torpidity in those parts of the system, or relaxation, will proportionally weaken their power, which being removed, they will be enabled to act; and certainly aftringents bid fair to produce the defired effect. However, in order to be acquainted with their ntility, we must now inquire what are the general effects produced on the fystem by their application; -where there is a functabundant quantity of ferous fluids in the blood, and the abforbents appear to be in too inactive a state, they become beneficial, by removing the former, and increasing the absorbent power of the Temphatic feftem-hence drawing off water accumulated and flagnating in any of the cavities of the body. In fcorbutic liabits, they remove morbid acrimony from the blood, by carrying off the faline and putrefeent particles of the mass of blood, which are generally distolved in the serous part of that fluid - and when there is a fuperabundance of circulating liquids 100 great for the flate of the fyftem, by diminishing them they become ferviceable—hence we find, their chief action is to promote evacuation.

When the natural fecretion of urine is morbidly defective, they reflore that fecretion, by foliciting a flow of fluids to the kidneys, and hence diminish other fecretions when morbidly augmented: and hence remove obseructions in the cenals of the urinary passages, and from them wash out all acrimony.

But, in order to promote their operation, they fould be given

in the most dilute state; we might say, it is always proper to throw in with them much aqueous sluid, except in cases of drop-sty; and, even in this case, there have been cures performed by drinking large quantities of mineral and common water. But where the intention of any medicine is to pass off by urine, the patient should walk gently in a cool air, and avoid all situations calculated to produce a determination of sluids to the skin; for there is so intimate a connection between the kidneys and the skin, that diurctic medicines, when thrown into the habit, will often prove strong promoters of insensible perspiration.

According to the particular nature of the separate action of diuretics, we shall be enabled to judge where they are impro-

per.

Should there be too high a degree of fentibility in the kidneys, a confiderable increase of urine, or any fixed contractions in the urinary passages, the administration of those which are finulant

must be disadvantageous.

If there should be a deficiency of ferous sluids in the system, the above also are improper, and those of the cooling cias-but where there is a redundancy of ferosity, the prohibition of dim-

ent diuretics are fairly pointed out.

Though we know not of any of this class that will always infallibly exert its diurctic power, still the catalogue given us by a variety of authors is extensively prolix;—we thall select such as are considered the most estications according to the particular states of the constitutions which may require them;—and these we shall comprise under three heads—of stimulant, cooling—and diluent.

Of the FIRST CLASS, or STIMULANTS, are

Nasturtium Horse-radish Asparagus Turnip Radish Onion
Celery
Parsley-feed.

All these may be taken as food, in decoction or infusion.

Fennel-feed Leek Garlic, Baltam of Copaiva, Hedge Hyffop, Wake Robin,

JUNIPER BERRIES, Spirits of, See Expectorants.

See Stimulants.

1 or 2 ounces in a pint of water, boiled or infused.

from 1-2 an ounce to I ounce.

Oil,

Oil, QUASSIA WOOD-Powder,

Infusion;

BROOM-Infusion, Decoction. Extract.

GRASS and ROOTS---WILD VINE --- Powder,

Decoction;

TOBACCO---Sculls -- Powder,

Fresh Root, Pill.

MEADOW SAFIRON-Oxymel, Fox-GLOVE --- Powder,

Infulion:

BATH WATERS, HARROWGATE WATERS, from 2 to 10 drops.

10 to 20 grains.

1 or 2 drams to a pint of water, 2 ounces the dote

1-2 an ounce to a pint of water ---dofe 1 ounce.

I-2 a dram to a dram.

4 ounces to a quart boiled to a

15 to 30 grains.

4 drams to 1 pint boiled down from i i-2 pint-dole, a ounces."

See Sedatives.

from 1 to 6 grains. 5 to 20 grains.

8 grains to 15.

from 1-2 a dram to a dram. 1-2 a grain to 2 grains. I dram to 1-2 a pint of boiling water --- I. 2 an ounce to an ounce the dofe.

Stimulant and diluent.

The COOLING CLASS are.

NITRE ---

Æthereal, or sweet spirit of, AMBER --- Salt, DIURETIC SALT---FIXED SAL AMMONIAC ---CREAM OF TARTAR---ADIDS .- Fermented;

Native;

MINERAL ACIDS---

from 5 to 30 grains. from 10 to 30 drops. from 5 to 15 grains. 6 or 8 to 30 grafis. 15 to 20 grains. 1-2 a dram to a dram. 1 dram to 1-2 a ounce.

3 drops to 6: The following, of this class, we consider as acting on the principle of neutral fairs, from the union with the acids they meet with in the stomach and intestines:

TESTA-

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TESTACEOUS ANIMALS-
         Grabs.
         Lobsters.
         Cockles.
                              Theie are taken by way of food.
         Oysters,
         Scollop,
         Periwinkle,
                              I foruple to 1-2 ounce.
SOAP-
KALL, or vegetable Alkali,
                             from 5 to 30 grains.
ABSORBENT EARTHS-
       Crabs Claws,
            Eyes,
      Hartlhoin prepared,
       Chalk.
LIME WATER-
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The diluent are—which also may be effected cooling—all the fweet acescent fruits:

Dandelion
Endive
Lettuce
Corn Sallad
Artichoke

Potatoes
Boiled Onion
Water
Milk Whey.

MALVERN
CHELTENHAM WATER,
ACIDULATED WATERS,

§ 10. DIAPHORETICS, derived from the Greek diaphores, transfero, to carry through, include all fuch fubiliances as increase perspiration, or sweat. This class used to be divided from sudorifier, or fuch medicines as promoted sensible perspiration, but unnecedarily; for they seem only to differ in their degrees of action, promoting the same effect, more or less copiously or perceptibly. But as different purposes may be answered by the different degrees of action of those parts which produce these effects, it may be necessary to make some specification respecting the two.

Intentible perspiration is promoted by all such materials as produce an all ingent effect upon, or contract the folids in a moderate decree, by occasioning an increase of elasticity or springin of the veticle in aus promote the circulation—hence l'errin bark—all the aftrin ent roots—austere wines—come under aus division, as do exercise which is moderate, either walking, rading on hardeback, or in a carriage—mild stimulants, or these of the stronger class weakened.

7.

Or, by fuch things as determine the matter of perspiration to the skin, such as moderately warm air, temperate exercise, an equal circulation of the shuids when the body is at rest, as well as in motion.

Or, occasion such a temperature of the skin, that it shall neither be too relaxed nor more rigid than requisite--hence frictions, lotions, and detersion are recommended; and it is from producing this effect that these things are found so beneficial to the studious, inactive, and those who are advanced in life---unloading the system by those means, without weakening it in the smallest degree, but, on the contrary, increasing its power.

Now SWEATING is promoted by nearly the same means, for all such things as relax the vetlels, and determine powerfully to the skin, will produce this effect, whether internally or external-

ly applied.

Hence come under this class all those diuretics which act not upon the kidneys electively—warm water, or barley-water sweetened with honey, excite a copious sweat—a glass of cold water drank going to bed—also those things which take off spatm, whether they are demulcent, or moderate or correct acrimony, as opium—testaceous powders. All strong frictions, warm vapor, particularly of water, warm bathing, or whatever will render the skin relaxed or soft.

Nitre, and its preparations, and all those substances which dispose the vessels to act upon their contained fluids—thus vine-gar sweetened with honey, and diluted with water, is the best sudorise in acute cases, and was a favourite remedy prescribed by HIPPOGRATES, in the following form, called HYDROMEL, from udor, water, and mel, honey:

Take of Vinegar, } each one ounce.

Mace, a finall portion, to give it an agreeable flavour.

Water, twelve or fourteen ounces; let this be drank
in bed after the manner of tea or coffee; and the patient there
wait the refult.

Care those h should be taken, that honey does not disagree with the constitution; for, where there is any natural antipathy, it is apt to produce violent assections on the stomach and bowels; sugar should therefore, in these cases, supply its place, or treacle will have a better effect. Whatever is taken hot, as well as heating aromatics, opiates, as also violent motion, are highly sudorissic.

Befides, fuch things as diminish the external pressure of the air, and those which increase the strength of the heart, with respect to its number and sorce of pullations, come under the head

of sudorifies—such as Rhenish wine, fresh juice of citron, penetrating aromatics, volatile salts, &c.—those things which simulate externally, as all acrid matters applied to the skin, as vinegar and ginger, which is the most subtile and penetrating and much recommended by Helmont—and lassly, whatever, restores impeded motion in the internal parts, as passions and affections of the mind reproduce retarded perspiration.

Though a number of the medicines mentioned above are stilled diaphoretics; still, strictly speaking, and considering them as fuch, independent of their connection with sudorifics we have no one of which we can foeak with any certainty that has been tried by flatical experiment, the only mode we have of discovering them, except ASA FORTIDA, as handed down to us by SANCTO-RIUS-yet I should suppose, that the power of all sudorifies weakened might be juffly confidered as diaphoretics; for we find all those things which can increase the airculation, determine the fluids externally to the fkin, and take off the spain from the minute veffels, are certainly entitled to the character of diaphoretics and fudorifics; and thefe three particular circumstances should be adverted to, when we want to promote a discharge of this fort for any good purpole; for though flimulants and I datives, or medicines possessing both there powers, may in many cases be very proper, they may in some, conjunctively or sepa . c-Iv confidered, be derrimental-and indeed there hav be conplaints where I weating would be improved, though the promotion of gentle perspiration might be useful, as in the fours but in the venereal disease, if the effect could be product with eafe, fweating is the best method of cure, and presenable to either evacuation by stool, or falivation.

From what has been advanced, we shall find that all general stimulants of the system as motion and heat, are particular ones are either applied to the excreta ice, those pores from whence the sweat issues, or to the parts confecting with them, as the stomach and intestines; hence their action

is either general, local, or fympathetic.

The catalogue of DIAPHORETICS contains

Burdock—Decocion, { 2 ounces in 3 pints boiled to 2, taken every 24 hours.

SENECA, or RATTLESNAKE-ROOT-

Powder, Dose from 20 to 60 grains.

Decoction, 20 ounces in two pints of water to 20—dose 1 to 2 ounces.

SNAKE ROOT-Tincture, from 1 to 2 drams.

Powder,

Powder, 10 grains to 1-2 a dram. GUATAGUM WOOD-{ 2 ounces to 3 pints boiled to 2 —dose 4 ounces. Decociion, Gum, See Cathartics. Tincture. from 1 to 2 drams. CONTRATERVA-Powder; from 10 to 30 grains. Compound, from 1-2 a dram to 2 drams. SARSAPARILLA ... 2 ounces to 4 in 3 pints of water boiled to 2, from 4 to 8 ounces the dofe. MEZEREON, OF SPURGE OLIVE. 1-2 an ounce in 6 pints of wa-The bark of the root, ter boiled to 4 .-- Doie, 1-2 a pint. OPIUM---See Sedatives. CAMPHOR, Ni ISA, See Antispasmodics. SALT OF HARTSHORN. ASA FORTIDA. dole from 20 to he grains. Calcined, 10 to 30 grains. Tartarized, i-8 to I-2 a grain. Glass of cerated, 2 to 20 grains. Precipitated fulphur of, 3 to 6 grains. ANTIMONIAL POWDER ---2 to 6. Wine. 10 drops to 50. ANTIMONY ... Tartarized wine of, IPECACUANHA---1-4 to 3 grains. Wine, 30 to 40 drops. WATER-WINE-

VEGETABLE and NATIVE ACIDS-

ACETATED AMMONIA,

called Myndererus's 5 from 2 to 6 drams. Spirits.

WATER OF AMMONIA, dole to to go drops. PREPARED AMMONIA, 5 to 10 grains.

Effential an' Empyreumatic Oils -though they are feldom used

in this view, but more as cordials and antispaimodies.

From considering the operation of medicines of this class, we shall find that their utility is derived from diverting the determination of the finids, and preventing them from crowding the internal viscera—removing various causes, which obstruct or impede the natural state of the circulation on the surface of the body, and there restoring the natural discharge—and also from their evacuating power, lessening the quantity of the circulating state, when to a great for the powers of the system—restoring lymphatic absorption—and discharging any morbid accumulation of serum.

But should the fistern be uncommonly relaxed, a great increase in the desermination of fluids to the exterior surface of the machine—— that want of fluids—the force of the blood on the bass of the brain much deprivated, the prohibition of their use is obvious.

The last of which we have to treat in this fection are

in the EM ENAGOGUES, from the Greek words emmena makes, and are, date, to produce the mentional evacuations of we ea; and all fach medicines as have been supposed to pro-

date this effect are comprehended under this title.

there, in end we may age to account for the precise manner in which mature performs this operation in the female machine: the enterpresent formatchery concludes we have on this head is, that a cliness of the uterine system, from a peculiar determination of a broad to that organ, a permeability in the uterine and vage all ventur, and an one case a impulsive power, all periodically east all, are reconstructor to falutary promotion of that discharge and when there arises a desicioney in all or any of these particulars, address will take place, which require the aid of that class of medicines of which are are now to treat;—but as there are various purposes often to be answered, e'er we can promote the decired end, dislocant medicines have been pointed out, and formed into divisions according to their action.

Hence have we EMMENAGOGUES,

Stimulating—as

Antimony, - Quickfilver.

Irritating-

Aloes, - Sabine, - Cantharides.

Tonic and Aftringent -

ron, - Cold-bathing, - Exercise.

As feetide, - Castor. -- Bathing the feet, and a variety of others, possessing similar powers to those here specified.

But in the application of these medicines, one thing is to be particularly observed, that not any of them ought to be used

at all limes, that is, previous to, and when the menfituating period is at hand, except the aftringent class and quickfilver.

The irritating and antifpalmodic are only to be called in aid, when there is an aggravation of the fymptoms, and an effort of nature at her accustomed time. The reason of which is clear—because the former are considered only as preparatory, that by their operation the constitution may be put into such a state, as to be enabled to seel, and answer to the effects produced by the more powerful and forcible action of such medicines as add vigour to the circulatory vessels, push forward the blood quickly and rapidly, and take off any obstructions which may be caused by some spasmodic affections.

According, then, to the disference of the constitution we wish

to relieve, so must we make our selection.

If it should be necessary to give strength and firmness to the system,

Aftringents may be had recourse to---as iron, and its preparations---bark---and bitters.

If to increase the force in the moving powers in general,

Cold bathing and quickfilver.

If to produce partial action by the fame mode,

Local Stimulants---

Partial warm baths---fementations---fitinulant vapor, or fumigation of tobacco to the uterus---aloetic medicines---fætid gums---cantharides---acrid purgatives---as they may communicate their stimulus to the part, either immediately, or communicate metion to the vascular system from the exertion of their action on the contiguous parts.

If to take off constriction,

Antispasmodics-

Asa sætida---castor---but particularly musk.

There is another class which we must have recouse to, particularly where there appears to be a scarcity of the sanguinary mass, in order, as far as in our power, to increase the general volume of shids, that the peculiar determination may with more ease be brought about, and this is the class of NUTRIENTS, selecting such to which the digestive powers of the constitution appears adequate to assimilate.

It now we call to our recollection what has been delivered-the means by which these appropriate remedies are rendered serviceable, will be—from promoting freely the circulation of the blood in the neighbourhood of the uterus, when too much obttructed there—from increasing the accumulation in the uterine vessels themselves, which is necessary to the menstrual discharge—and removing morbid obstructions to the passage of blood

into

into the cavity of the uterus---also, from augmenting the firength of the system in general, particularly of the vessels of the uterus, when desective—and removing any spasmodic constriction taken

place in them.

But strong objections may often arise to the use of some of this class—if the rectum should be in a particular irritable state—or there should be any local inflammatory affection, we must avoid those which are irritating.—If the blood circulates with great force, or there should be particular debility of any other parts, the stimulant must be avoided; nor must those denominated tonic be meddled withal, if there should be any morbid rigidity in the system.

Our catalogue of EMMENAGOGUES supplies the following ar-

ticles:

PENNYROYAL,
RUE,
SABINE,
ASA FOETIDA,
GALBANUM,
AMMONIACUM,
MYRRH—

Tincture,
QUICKSILVER,
IRON-Ruft prepared,

Tincture of muriated Iron,

Wine of,
AMMONIACAL IRON—
TARTARIZED IRON—
VITRIOLATED IRON—

See Antispasmodies.

See Expectorants.
1-2 a dram to 2 drams.
See Sialagogues.
from 5 to 30 grains.
from 10 to 60 drops.

dose from 3 to 15 grains.

10 to 30 grains.

dose 3 grains to 20.

Cathartics—Diuretics—and Emerics—may, if we confider the nature of their actions, be fairly included, on particular occasions, in the list of Emmenagogues.

C H A P. III.

WE are arrived at the third part of our arrangement, and must proceed now to treat on MEDICINES WHICH ACT UPON THE FLUIDS THROUGH THE SISTEM, I the time manner as we have before spoken on those which then upon the foicis; and these include ATTENU INTS—INSPISSANTS—and DEMOL-CENTS—And, first, of

§ 1. ATTENUANTS, from the Latin attenuo, to make thin,

periecily

perfectly expresses the nature of all the medicines of this class, and comprehends that ever can be understood by dileting, inviting, and rejolving medicaments; three terms into which this class have been, by many, divided, because they all contribute to render the sluids more thin and fluxile.

But as this point may be accomplished in two ways, either by fubiliances mixing with a fluid, and rendering it more thin, that not changing or altering the particles of which it was composed; or having the power of diminiming the cohesion of the blood, and thus rendering its texture less tirm and tenecious; they may be certainly, and ought to be divided, according to their action, into diluent and referent.

Among the first we cannot be properly faid to have any other than water, which is productive of a variety of good excess upon the habit—but not morely by its diluting property, it less more particularly, immediately, and university, by its coldness. Now, as a diluent, it not only thins the fluids in the way we have above specified, but it affills digestion, sico, quantiles think—is an universal vehicle for folid tood, corrects accimony—promotes stud secretions—and is by many effectived, much more than any other medicine, an universal remedy.

Now, as it is clear that all diluents should be more fluid than the humours which are by their intervention to be rendered thinmer; and have at the fame time, when mixed, the p opens of making them retain their acquired fluidity---we shall find, there

is not any thing except water that possesses this power.

Though wine---oil---faline fabrances---termented foirits--and force earthy fubriances have been fair to criev thefe virtues, still it is obvious, that they are detective, and have not them in that degree fo as to become really diluent acros wine, as a diluter, depends upon its watery particles joined ob its flimulating power---oil renders the mais of fluids rath acce viscid--- faline substances resolve by their faire ins---te ed fpirits are more apt to coagulate--earths are or themselve is id and inert, and can never be taken in this view, but as they y mix with fome acidities in the Homach and intettines, and thus change their form, and become active from their affirming that of neutral falts, and with them may they be classed; there ore it is to water we must refort, when we wish to call in aid alone a purely diluting power -- to which, it has been fad, if we add gentle heat, or faline particles, as fea falt, Polychieft falt, fal ammoniac, or borax, we shall improve its power, by the addition of their stimulating effects, but this is adding a colovent property --- Moderate motion is also said to improve its powers. But as for resolvents, they act by increasing the force of the moving powers by the stimulus they possess in a limited degree; for should they act violently, they would, by dissipating the thinner part of the slunds, render them thicker, and become incrassants; but by gently stimulating, though they produce evacuation, they permit the vessels to act more freely upon their contained sluids, and hence become resolvent.

On confidering the action of this class, we shall be empowered to discover, that their beneficial effects arise, from removing any morbid viscidity in the blood, and refloring a free circulation, when in the small vessels it is morbidly obstructed—from increasing the quantity of serous evacuations, when too greatly diminished—and rendering them, when too thick and viscid, more sluid.

But their use must be prohibited in constitutions labouring under too great thinness of the general mass of sluids.--having a propensity to morbid serous accumulations---or a remarkable

increase of similar secretions.

The catalogue of ATTENUANTS are,

WATER,

MILK WHEY,

ALL LIQUIDS abounding with water,

CUCUMBERS, WHITE LILY ROOT,
MELONS, CELERY,

BETE.

SPINAGE, (BOILED ONIONS)

CORN SALAD,

CABBAGE,
DANDELION

ENDIVE,

ARTICHOKE,
MUSHROOM.

ENGLIH MERCURY,

And foine others. All the SWEET A-

CID FRUITS.

Fixed vegetable Fixed follile, Volatile,

NEUTRAL SALTS---

in fmall doses, and continued for fome time.

See Diuretics and Cathartics.
See Diuretics.

\$ 2. INSPISSANTS--these are a to called INCRASSANTS--from the Latin words inspiss and incrass, to thicken. These terms, like the former, give us a perfect idea of their import-from whence we understand all such substances as give a degree of vise idity, to the circulating sluids.

From experience we know that our fluids do fometimes run into a flate of morbid thinnels; but by what means, is very

doubtful.

Some have supposed it to arise from too great a proportion of fluid aliment; whilst others have been led to believe, it originated from a retention of some of the serous secretions. But if we reslect, that children and many adults live upon food totally liquid almost, yet no such appearance is the result; and that nature always supplies the defect of one secretion by the increase of some other, and the retention must be partial, it cannot be universal; both these opinions seem by no means satisfac-

torv.

I rather think that it is occasioned by a relaxation of the system, particularly of some, or the whole of the digestive organs; for throng, muscular, laborious rustics, whose digestive powers are good, have generally, nay, I believe always, the blood tending to the opposite extreme—whilst the more delicate and relaxed, whose digestive powers are weak, have the sanguinary mass too sluid: indeed people whose blood has possessed a proper texture, have, from illness, had it reduced to a state manifesting a too weak cohesion, and that apparently by the system being debilitated.

Whatever may be the cause, it is our business to remedy the effects; and these we attempt by reproducing a proper proportion of viscid shuids, and by increasing their attractive power one with another; and their consequences may, we think, be acquired by the following catalogue of INSPISSANTS:

Wine,

Farinaceous Grain,

Acids vegetable Mucilaginous and Oily
—mineral, Substances,

Substances, Sago,

Alchohol, Sago, Radish, Salep,

Turnip, Almonds, &c.
Carrot, Gum Arabic,
Parfnip, —Tragacanth,

Skirret, Starch,
Potatoes, Ifinglass,
Leeks, Arrow Root,

Comfrey Root,
Cucumber,
Poppy, and
Eggs,

Melon Seed, All the Astringents,

Onions, 'O. Bark.

It has been remarked by some authors, that acids---wine---alchohol---and in some measure, the astringents used internally, have been said not to produce their inspissating effect; and should therefore only be employed externally, in cases of profuse bleedings; and that the nutritious and demulcent class, of which we shall next treat, must, for restoring the viscid sigids, be de-

pended upon.

However, I cannot avoid thinking the whole, alchohol excepted, may be used with much advantage; and greatly assistant in rendering those, which act merely on the blood, more quickly efficacious, by invigorating the system, increasing the strength of its vascular power, and consequently the action of the vessels upon the contained sluids.

On this head authors have confined themselves to such sub-stances as were either farinaceous, as barley, wheat, rye, and such and conceived their utility to be derived from removing morbid tenuity in the blood—preventing the transmission of red blood through veilels not naturally sitted to receive it—diminishing the quantity or those secretions which were serous, and too copious, and rendering them more viscid where morbidly thin and sluid—and have prohibited their use in morbid viscidity of the blood—preternatural diminution of the secretions in general—and a high degree of debuity of the digestive organs.

I am perfuaded that in many cases, particularly in those where a weak digestion is prevalent, the use of some of the stimulant aromatics, mixed with the invigorating astringents, such as bitters, bark, iron, would greatly conduce to conquer many of those defects for which incrassants are prescribed, and I have repeatedly seen their good effects; indeed I very often unite them, and find, that, conjoined, they prove more essections than when ad-

ministered separately.

\$ 2. DEMULCENTS, from denulceo, to appeale or moilify. These by some have been considered to act in a double capacity, by blunting or sheathing the acrid particles of our morbid humours, or promoting an entire change in such as were offensive from their acrimony, and forming a third substance, perietly different in its nature with respect to its action. Hence have they been ranked as general and particular demulcents. In the latter class are enumerated all the acids and alkalines, as well as some metals, with regard to their influence on each other; as if one was creative of any disturbance in the habit, by exerting a morbid stimulus from its acrimony, the other on being given proved corrective, and cured the affection; hence was stilled demulcent; but these are more properly arranged under other heads, as the antalkaline and antacids, of which we shall soon treat in their separate places.

At prefent we shall consider them only as obtunders of, or blunting acrimony, by mixing with and preventing the acrid

part of the fluids from exerting themselves on the solids, so as

to create pain, or other uneafy fensations.

And it will appear then, that of all this class, in this view of the subject, are either mucilaginous, oily, or a composition of both; and these manifest their action immediately in the stomach or intellines; or, after having passed through the circulation, in the fecretory organs.

For it is imagined, that acrimony takes not place in the blood vessels, but in the secretions, as the serum is thought to be the vehicle of acrid fubstances. These demulcents, therefore, mixed with the blood are separated with the serous, or thinner parts of the fluids, in those places of the system where secretions happen; and thus, by enveloping the irritating particles, prevent

them from stimulating.

Thus they defend the kidneys, the lungs, the veffels of the vagina and uterus, in nephritic or gravelly complaints; in defuxions on the lungs; and cales of the whites; and are highly useful in hæmorrhages, which are often maintained by acrimomy; for increased secretion of mucus is always acrid, till its thinner parts are diffipated, by lying some time-hence their use in coughs, defluxions on the breaft, the whites, and those difcharges after child-birth, called lochial.

Whatever good we may perceive can be derived from medicines of this nature, may be acquired from some of the following

felection of DEMULCENTS:

Larger Comfrey Root, Seeds of Cucumber,
Poppy,
Melon,

Sugar,

Honey, Raisins, Dates,

Figs,

Hips, Liquorice, Gum Arabic,

- Tragacanth,

Starch, Ifinglass,

The Nutrients,

Emollients, and · Sedatives.

though these last can scarce be faid to act in the mode we have described of common demulcents; but rather take off the acrimony by diminishing the sensibility of parts; and produce a viscofity of the secreted fluids, it is obvious from the appearance of the matter, in those who have taken opiates, after their narcotic effects have ceased.

And this I take to be owing to the veffels being by their power thrown into a flate of torpor, and thus fuffering the fecreted fluid to become more denie by its continuance, and confequently less acrimonious from the distipation of its more serous parts.

They have been divided into LENIENT DEMULCENTS, fuch as Starch, Starch, Gum Arabic, Olive Oil---and those which are DILUENT, as Water, and watery subflances; but these last come not properly under this head, without being mixed with some of the former; as they are apt, without such mixture, to pass off too

quickly by some of the emunctories.

The use to be acquired from the administration of these materials are, a diminution of the action of the ordinary stimuli upon parts affected with too great sensibility, and a supply of the natural coverings of the parts where too desective—diminishing morbid acrimony in the system in general—and rendering more mild those secretions which are præternaturally, or too violently acrid.

But their administration would be pernicious, if there was any defect of a natural pungency in the secreted sluids—a great degree of viscidity in the coverings of the sensible parts—or an

uncommon want of fenfibility in the excretory organs.

CHAP. IV.

TVE are now come to our fourth division, wherein we purpose to consider

MEDICINES WHICH MANIFEST THEIR SENSIBLE ACTION CHIEFLY, IF NOT SOLELY, IN THE FIRST PASSAGES RESPECTING THE FLUIDS.

The first of which present themselves to our view are,

it. ANTALKALINES, from the Greek words anti, against, and alkali, alkalies, consequently all acids and acescent materials come under this description; as do all such medicines as conquer alkalies, and destroy their power of action as such. But in this place the acids and acescents are only to be considered as correctors of alkalescent substances; for we have before seen the diversified power they appear to maintain as astringents, stimulants, securities, inspissants, cathartics, diurctics, and they will also rank with antiputrescents; at least such of them as have been selected agreeable to the effects they have been thought to produce on the human machine: and here their chief action as pears to me to be in the first passages only, where, coming in contact with alkalescent substances, there they neutralize them.

I am of opinion, that where there happens to be, from any disease, an alkalescent state of the sluids, they are not of much service by acting in them merely against, and correcting such alkalescency; for when our fluids are affected to any considerable degree with this, little is in our power; but in cases of this kind,

fhould

should they be of any fervice, I am persuaded it is more from their action communicated to the solids, particularly the mineral acids, than from any other cause. Perhaps the utility derived from the native acids depends more upon the fixed air, with which they are replete; for we have not a more powerful corrector of putrescent acrimony than this species of air.

They have been divided into vegetable and faline antalkalines ---but the better division is, into native, of which forrel, barberry, and tamarinds, form examples—and into artificial, as the a-

cid of vitriol, fea falt, nitre, and vegetable.

The catalogue of ANTALKALINES, with which we are fun-

SWEET ACESCENT FRUITS.

Pears,
Apples,
Oranges,
Lemons,
Strawberry,
Rafpberry,
Batherry,

Tamarinds,
Currents,
Grapes,
Cherries,
Raifins,
Dates,
Figs, &c.

MOST OF THE CULINARY PLANTS.

Cueumbers,
Melons,
Bete,
Spinage,
Corn Sallad,
Salary,
Atparagus,
Artichoke,
Radith,
Turnip,
Carrot,

Cabbage,
Nafturtium,
Endive,
Dandelion,
Lettuce,
Parsnip,
Skirret,
Potatoes,
Leek,
Onion,
Garlic.

OLIVE, WATER DOCK, SORREL, &c. WINE,

VINEGAR, with the ARTIFICIAL MINERAL A-CIDS above specified,

SALT OF AMBER. See Diuretics.

And likewise the whole class of Demulcents; but these act by mechanical, not chemical mixture—that is, from merely mixing with and sheathing the offending particles, not from altering them, by forming a new combination, so that each body loses totally its natural properties, and becomes a third, differing from

hort

both-and, perhaps, some others here specified, may act in the fame mechanical mode.

It will, from this concife view, appear obvious from whence the whole of the virtues of this class of medicines may be collected-and where their use ought to be prohibited-their power

of neutralizing alkalies.

For, ON THE ONE HAND, by this power they are capable of removing any fentation of alkalefeency in the first passages-rettoring the natural disposition to acidity in the stomach-and correcting in the alimentary canal præteraatural putreicency. ON THE OTHER, if there should be, from an acid caute, any natural disposition in the stomach to that painful sensation, called CARDIALGIA, an uncommonly flow and languid circulation, or any confiderable diminution of animal heat, these defects they would increase; consequently, under such circumilances, ought to be prohibited.

1 2. ANTACIDA, Antacids, from anti, against, and acida, acids. These comprehend all alkalescent substances, most of the absorbent earths, and some neutral falts-and are such substances as counteract acidity in the same manner as acids conquered alkalies-and are in this light here only to be confidered, as we have before taken notice of them with respect to their different operations in the habit, felected agreeable to their various powers, acting as stimulants, antispasmodics, attenuants, antiseptics, catharties, and diureties—and in this place they feem chiefly to exert their efficacy only in the Romach, now and then, perhaps, in the intestines.

The catalogue of ANTAGIDS with which we are prefented, fufficient to answer any purpose they are capable of effecting, are TESTACEOUS ANIMALS. See Diuretics.

ANIMAL FOOD-LIME WATER-Dose 6 ounces to 16 in a day. prepared, from 10 grains to 2 CHALK-CRABS EYES and CLAWSdrams. BURNT HARTSHORN-Decoction of, Eco and Oyster Shell pre- from 10 grains to 2 drams. pared-ALKALI-Vegetable, Fossile, called So- from 5 to 30 or 40 grains.

da, or Natron, from 3 to 20 grains. Volatile,

from 4 to 10 or 12 grains. BORAX-

TARTARIZED KALI, or 12 to 20 or 30 grains. SOLUBLE TARTAR-

SOAP- See Diuretics:

STIMULANTS—
ANTISPASMODICS—
SEDATIVES—and
DEMULCENTS—

Though most of these act by coming in contact with the prevailing acid immediately, without considering the solids—yet those under the general titles, except the demulcents, which become serviceable by their sheathing property, produce their effects by the influence they have on the moving powers, which we have in their proper places before specified.

As the action of these, like the former, is so very limited, only to be considered in this place as counteracting acidity in the first passages, we shall have occasion to say little more than will be sufficient to show where they will be beneficial, or in what

cases their exhibition would be improper.

When there is a morbid prevalence and fensation of sourness in the alimentary canal; when, from the same cause in the stomach, the natural appetite is vitiated, and the action of that organ and intestines is disordered, they are of service in removing the former, and restoring the two latter to their healthful standard.

But when there is a prevalence of alcalescency in the stomach and bowels, or a tendency to putridity in the general mass of blood, they must be highly detrimental. And, perhaps, in this last case, the mischief which would arise from their use may be more owing to the destruction of the acid in the first passages, than from joining in their alcalescent state with the sluids, as acids have been considered antiputrescent.

§ 3. ANTISEPTICS, from anti, against, feptica, putrefaciantia, substances occasioning putrefaction. These include all such materials as obviate the too great putrescency of our sluids.

Now as the putrescency of our humours may be brought on by excels of heat and motion, as well as receiving any putrid ferment into the valcular system—as it, when once fixed, and begun to exercise its deleterious action, induces languor and great debility in the moving powers, we may see the reason of our antiseptic class of medicines, exhibiting, according to the conception we have of their action, such apparently contradictory views—for in the same arrangement we shall find, that we have the volatile salt, and those of the neutral kind—the former considered as highly heating, and a strong stimulant of the moving powers—the other as cooling the system, and mitigating vascular motion.

From

from thence I presume, that they are only applicable in difserent stages of putrescent action; or in different constitutions affected with putresaction;—and not unlikely the same may hold good with acids and alkalies, for they are both enumerated under antispatmodics. Of these different substances it therefore behaves us to be careful in the application.

In the first stages, where a putrid tendency may be accompained with high degrees of circulatory motion and heat, or in constitutions where these are prevalent, neutral salines and accelents may be the most proper; but in languid habits, or those made such by the continuance of the enervating power of putrid particles, vo-

latiles and cordials challenge the preference.

Nitre has been faid to be strongly antiseptic, when applied to inanimate animal matter, but not so in the living subject, as it lessens the powers of the vital actions—but this is only applicable in the advanced stage of putrescency; and it is to that state of the disease alone they must mean to advert, who advance, that cordials, and whatever invigorates the solids, by increasing the vital heat, are properly antiputrescent, and by what alone relief can be obtained in putrid complaints.

However, our chief intent in these cases is to keep up a due action of the moving powers, and a proper tone of the solids, that is, an active sirmness—which effects, we conclude, may be

produced by the subsequent selection of Antisertics:

```
Those FRUITS which have sweetness coupled with acidity.
    Cherries,
                         Oranges,
                          And fuch like.
    Apples,
                   Acerb Fruits,
                         Sloes, &c.
     Quinces,
    Medlars,
               Wine,
               Vinegar,
               Muriatic Acid, See Diaretics,
               Salt of Amber,
         Some Neutral,
               Mentalline, and Salts.
               Earthy,
               Essential Oils,
               Empyrematic Oils.
Acetated Litharge-from 1 to 3 drops.
Alum-
                  Page 139.
Nitre_
                  ------ 176.
                                                  Alchohol
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Alchohol. Quassia,

All Vegetable Oil of Turpentine, Ale-Porter-Cyder Nutrients.

.. -Perry, Aftringents, Stimulants, Camphor. Sedatives, Afa Fœtida, Antispasmodics, Muík, Myrrh,

Wormwood, Chamomile,

but, in cases of languor, certainly the most eligible act,

Bark ---

dose from 12 to 1-2 deam. Refin.

1 onnce to 2 pounds reduced to 1 pound --- dose 2 ounces:

Bark ---

Powder. 20 grains to 2 drams. Tincture, fimple, 1 to 2 or 3 drams.

or Auxham's I to 2 or 3 drams.

They have been properly divided into fuch as are tenie, in creafing the activity and flrength of the fallem, of which Peruvian Bark --- Wormwood --- and Chamomile are examples.

Such as are cooling --- Acid Salines --- Neutral Salts. Stimulant, as Wine-Alchehol---Oil of Turpentine. Antifpasmodie, as Camphor --- Asa setida --- Musk.

The utility of thefe are derived from refilling and correcting putrelaction --- by preventing the affimilating quality of any putrid ferment received into the machine -- correcting the putrid disposition of the humours --- obviating the progression of putrefeency taking place in the folids --- and refloring to a found flate

folids morbidly putrid.

But in cases where a peculiar sensibility of the stomach is prevalent, those called Toxic are to be avoided—the REFRIGERANT, where a debility of the vital powers are manifest—the STIMU-LANT, when we perceive too great a degree of irritability, circulation too highly accelerated, or flrong disposition to profute bleeding - and the SEDATIVE ANTISPASMODICS, when there is a too languid circulation, a lethargic disposition, or a confiderable degree of torpor in the fystem.

CHAP. V.

IN our fifth and last division we include MEDICINES WHICH PRODUCE THEIR CONSEQUENCES BY EXTERNAL APPLICATION;—0.2 ON SIBSTANCES FORMED WITHIN THE MACHINE, THOUGH LODGED WITHOUT THE VERGE OF CIRCULATION. The first of which we shall consider are,

§ 1. EPISCASTICS, or VESICATORIES, from epifpure, to draw, and vylcatorium, as railing a blitter. They are therefore flimulants, in the field fenfe, locally fuch; and, if continued, be-

come evacuants.

But their action is not confined to those places where they imracdiately act; they communicate that action to the system in general, and often in particular to the urinary passages; but this effect is chiefly produced by cantharides, or Spania flies.

They have been formed into three divitions, viz.

1. Such as only occasion heat in the part—of which class may be considered the slighter stimulants.

2. Such which create heat, with some degree of inflammation,

as Horse-radish-Mustard-Volatile alkali.

4. Inote which produce a discharge of pus, as Setons and

They are often applied with different intents, either as they aften the nervous power, after the belance of circulation, or produce evecuation; hence are their particular uses discoverable;—in removing torpidity, or languor in the system—conquering the checks of more than usual similarity—decreasing violent pain—weakening the circulatory force of the blood against any part morbidly assessed—and also of action in verills of the neighbourhood of these to which they are applied. They also decrease the volume of the circulating ships when too great in the habit, and evacuate morbid accumulation of ferum.

But thould the fystem be in general hignly irritable, the blood preternaturally thick, or the sluids in general too defective in quantity, these circumstances demand the prohibition of their use.

2. PHILECTOMIA, bleeding, from phl ps, vena, a vein

or artery, and temno, feco, to cut.

Under this term are arranged all those modes by which blood is evacuated from the machine by the modical art; and these appearations are considered as either producing general or partial

effects, by relieving the system in general, or only in some of its

parts

The division of this class has commonly been general, and topical, or local; and instanced, in opening a vein, or an artery, as belong to the first; as to the second, scarifications, or cupping-glasses, which are called cruentae, from the drawing blood—and the application of leeches; but the terms, it has been thought, would be more judiciously confined to the quantity taken, as veins or arteries must in all cases of blood-letting be opened. In general bleeding we commonly take away such a quantity as will in some degree decrease the power of the system—in local, such a proportion only as may contribute to relieve a part of the system near which the operation is performed—or, we ought to make such distinctions, for the sake of propriety, by which we should understand, that in general bleeding, the larger branches of the veins or arteries are opened—in local, only the capillary, or very small branches.

From whence the use accruing from this operation is derived may be easily conceived—as it proceeds either from lescening the quantity of blood, altering the state of its motion, or changing

its course.

Hence it relieves in all cases where the mass of blood abounds too much in quantity; or, when there is a too great tension or distension of vessels in the system, when the force of circulation is highly increased, or the heat immoderate, or when in particular blood-vessels there is a morbid increase of action, or the force of the blood is too great against parts morbidly assected.

But where there is too great a fearcity of blood, the circulation remarkably weak or languid, or too great a debility in the voluntary motions—these are powerful objections to its use.

Though from this operation it is apparent that the highest advantages may accrue; and indeed, in many cases which are inflammatory, or arise from languinary congestion, nothing can be done esticaciously without it; still I think it is made infinitely too free use of, especially in those places and climates where people are liable to fall into putrid, and some malignant complaints.

Where the patient is firong and athletic the pulse full and tense, and there appear evident figns of too great plenitude, it is univerfally right to bleed, otherwise there is some caution required; for it very often hurries the habit into such a state of extreme debility, in some severs, that nothing can compensate the mischief

it occasions.

In all doubtful cases, therefore, where it may be thought necessary for blood to be taken away, I would advise the operator to lay his finger on the pulse of the opposite wrist to that wherein the operation is performed; if, during the flowing of the blood the pulle rifes, it is an indication to perlift; if it thould mag, we

should immediately defilt.

§ 3. ANTHELMINTICS, worm medicines, from anti; against, and elmins, vermis, a worm: or VERMIFUGES .--Thus are called such substances as destroy or expel worms, when ther fituated in the gullet, in the passages to the stomach, the flomach itself, or the intellines; but, though it has been said. worms are formed in various parts of the machine, and have been found in different places, as the liver, kidneys, lungs, membrane furrounding loofely the beart, brain, cavities of the teeth, &c. we confine ourselves to medicines which perform their office on thote which lodge in the first passages.

BOERHAAVE used to divide this class into two, viz. those which destroy and those which expel worms; -but there may be cale; where the exhibition of these may be improper, because of the particular state of the stomach and intestines being unable to bear their action—hence modern authors have more judiciously divid-

ed them into four heads:

FIRST. Those which are supposed to destroy, by poisoning

the worms, termed venenofa, poisonous as QUICKSILVER-

TIN-Powder, SULPHUR—Flowers of.

See Sialagogues. dole 6 to 20 grains or more. See Cathartics.

Second. Those which expel worms, or cathartics,

SCAMMONY-

JALAP -

ALOES-GAMBOGE_

THERD. Those which have lubricating properties, called hebricantia, lubricating, as

OIL OF OLIVES-

LINSEED OIL-

FOURTH. Medicines supposed to have a tonic power, or giving activity and Arength to the bowels, named tomea, as See Emmenagogues.

SABINE-

WORM SEED-Powder,

FANZEY-Infafion,

dole 1-2 a dram to a dram. a pint to 1 pint in 24 hours. Powder. To to 30 grains or more.

Besides these there are a number of other articles exhibited for this purpose—

INDIAN PINK ROOT-

Powder. FERN ROOT-Powder, 8 to 40 grains. 1 d.a.1 to 3.

the hairy part feraped off the pods, and mixed with fyrup.

in strong folution.

See Antispasmodics.

to the confishence of an electuary, dose I to 2 tea-spoons.

COWHAGE-

SALT-CAMPHOR-

BITTERS—OIL IN GLYSTERS—

HARROWGATE WATERS,

But I believe Calomel in general one of our most superior vermifuges.

The utility of these medicines naturally refult from their action on the worms themselves—allo on the system—'vy which means they either destroy, expel, or prevent their generation in the machine.

But some exceptions may very properly arise to the use of each under particular circumstances—if the intestines should be in an inflamed fiste, or be abraded, the veneral, or personners, should be avoided—the labricantia, lubricating, if there should be accumulation of fordes in the first passages—if a peculiar fensibility of the stomach, the tenica—and the cathartic, if any topical inflammatory affection should occupy the intestines, or should the constitution labour under any descence of fluids.

is 4. LITHONTRIPFICS, from lithos, lapis, a stone, and storage, frange, to break. By this term we should mean all fuch materials as disoive the stone;—but our catalogue, under that idea, would not, I sear, comprehend any, notwithstanding the variety of pompous pretensions some have published on the certain existence of medicines endowed with this solvent property. But it is the general opinion of the candid and rational practitioners; that those who write now on the power of medicine, though they arisin the term, only mean such substances as possels a power of removing the assposition in the body to the formation of calculi, or stony coveretions.

Indeed, we have had much faid on the diffolving power of alkalies and quick-lime—foap ley taken in broth freed from its fat —Nrs. Stevens's folvent, and lime water—for a long feries of time; fill few have found the withed-for fuccels; but how far they may act as preventive remedies, as well as fome others, cannot be possibly determined. From the use of bitters and the uva urfi, or leaves of bear's wortle berry, in this view, I have known some benefit to arise in patients subject to gravelly complaints, from a collection of stony or gouty matter. Much is said at present of, and indeed the many experiments lately made seem to prove the utility of a solution of the VEGET ABLE AL-KALI, called kali, impregnated with fixed air, half a dram of the fult given at each dose, diffolved in any proper liquid, twice a day, and this increased to two drams or more, and continued for fome time.

They have, however, been divided into fuch as are ANTA-

CID, as

LIME WATER-SOAP-

CAUSTIC ALKALI-SOAP LEY--

KALI with fixed air,

6 ounces to 16 in the day. 20 grains to 1-2 an ounce.

lin venl broth---- 10 to 30 drops.

in infusion, 2 ounces to a quart of water-dole, 6 to 8 ounces.

Such as have an ASTRINGENT POWER, as

UVA URSI, or Bear's Wortle } See Aftringents.

But it has been alledged, that all alkalies in general policit this thone-dislolving power, therefore in their caultic flate they are by fome rejected; because they are ant to disagree with the flow ch, and from thence are they obliged to be employed in too

As folvents, I am of of trien, little can be faid of the use of the class here enamerated, but as preventives, having a power to obviate the generation of flony concretions in the machine, they may be confidered to be beneficial in two ways -- in aftering the flate of the felials, by presenting a particular flate of luxing of the floranch, ar I in the kidney-and in producing fuch an entire upon the circulating built, at they become lets liable to furnish stony maserials to be fearered by the kidneys,

But certain of Clions will arise to the ase of the amacide, if in the Romach there bould be a disposition prevalent to generate ale defency -- to the officer oft, if there hould be a rigidity, or

contraction in the coats of that organ.

On vernifuges and Libertriptics we have been more concile than on other parts of our ful just; because they each are appropriated here only to the clieviation of angle complaints specified under their respective heads; of which, when we come to treat hereafter, we shall be obliged to freak more fully; and enlarge more on the particular meture of the remedies in each cale administered: at prefent it has therefore been thought infficient to furnish a general idea, in order to prepare our readers properly for more cally understanding what we have to deliver on these heads.

And now we would observe; that, natwithstanding, in treating on medicines, we have enumerated a great variety, which many professors. have thought essentially necessary to be produced; there have not been wanting some in the medical world, who seem to despite all this labour, as well as the authority of Hippocrates, Borrhauve, and all the men of eminence, who have been confidered as shining organients of their profession; and publicly avow, that a very sew medicines, properly applied, will serve every purpose of the medical art—and there are,

CANTHARIDES, used chiefly as blisters, CALOMEL.
TARTARIZED ANTI-MONY,
Ahoesi

DENN'AS

JAMAR,
SALTS,
OFFUM,
With the tife of nutritious diet
and domestic cordials.

However, we cannot avoid confessing, that we think this catalogue infinitely too consists; particularly as there are some medicines omitted which have surprising effects, for which we cannot so readily account; but whose efficacy has been confirmed to us by practice; and others of which, from daily experience, we are forbid to doubt the utility. I would, therefore, in order to render the catalogue more complete, subjoin the following articular:

OTE OF CASTOR,
ANIMAL OIL,
OIL OF AMBER,
VOLATILE ALKALT,
ELOWERS OF ZINC,
WHITE VITRIOL,
PERUVIAN BARK,

ASA FOETIDA, MUSK, CAMPHOR, IPECACUANHA, RON, RHUBARB, SABINE.

Before I quit this subject, I would beg leave farther to observe that though I have placed the doses of medicines as usually administered to adults; in all active medicines, I should recommerd them to be given in small doses at first, and gradually increased, till we have arrived at the fullest that the constitution can bear with ease, as the only mode of trying what good essentially the produced by their powers: and here we shall often find a surprising difference in the quantity necessary to promote the end defined—for I have known two grains of a very active medicine produce as powerful an effect on the constitution, as eight or ten would on another; and this knowledge can only be obtained by particular experience. Indeed, I have known complaints cured by the very same medicine under the management of one mactitioner, that had failed in the hands of another; which on-

ly arose from the different modes of management respecting the

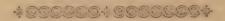
quantity administered.

With regard to the forms in which medicines ought to be exhibited, the intent to be sufwered should be particularly confidered; whether the expeditions or permanent adden is most eligible—if the former, they should be given in Equid—if the latter, in solid forms—because in their disfused state they act most quickly.

For a very great variety become effectual by communicating their power from the stomach to the rest of the machine sympathetically; confequently the larger furface of the Romach they touch at the lame time, and flronger their action, the quicker and more powerful will be their effect - in acute cases, therefore, these purposes will be best answered in a state of solution: but, on the contrary, in chronic cases, folid forms are preserable; because they occasion medicines to act slowly, and, of course, make that action more durable, by remaining longer on the domach; -belides, all medicines which are not easily suspended in any liquid, thould be administered in form of bolu-pill --electuary -or powder mixed with fyrup or fome other vifeid fabiliance ;those which are volatile, very light, or readily milcible with any menstruum, should be given in mixture or draught. Where a greater proportion of any vegetable body is required than the stomach can bear in powder, and where the active part can be extracted by water, decoction or intusion is the most proper;and all oleaginous fubitances require the addition of fome intermediate viscid body, to make them properly incorporate with watery fluids, or fyrups, and are most elegantly administered in form of emulsion or linetus.

Though tome small dissipately may arise to readers slightly conversant in medical refearches, on the perusal of this part of the work which treats on medicine—still, by bestowing a little pains on each division—from the advantage they will receive, they will not find their labour ill bestowed—for they will be taught the simplest, most easy, and certain mode of prescribing, as well as the most powerful—they will also understand, from the knowledge of the disserent powers of medicine, not only where they are likely to be serviceable, but where they will be of dangerous consequences—a species of information which every man ought to posses, who does venture to prescribe either for himself or others:—for the hallow of physic is, NOT TO DO HARM IN ALL OUR EFF ARTS TO GOODS; of which no man can be certain without he knowledged, and whether they are properly

adapted to the confliction, under the circumflances of the morbid attack which he labours to remedy.



SECTION VIII.

ON DISEASE IN GENERAL.

AVING finished those parts of our work which were confidered as preparatory to the more complicated, we must now enter on an impurity into the nature of discases, with the best modes of discovering and curing them.—But, previous to this, it will be of use to say something general on the subject in order to them what is meant by discase—how discovered and distinguished—the different causes—with the indications of cure.

By DISFASE is meant a general or local affection, by which the fiftem is diffurbed, or the action of a part impeded, perverted, or deflroyed—or, an appearance deviating from health, from fome general, partial, or local affection, by which the fiftem in general, or in a part, is opprefled or disfigured—and this is difcovered and diffuguifhed by an enumeration of certain fymptoms or appearances with which it is always attociated.—But difeases differ; hence it is necessary to deflinguish them from each other, with which they may feem to have a near affinity—this is done by the causes and poculiarities that are connected to them; and from whence the deviation arises.

The causes of the disease are threefold:

part, is in fuch a fituation as is most favourable to produce difease: or to receive the impression made by its cause immediately considered;—and these are either

Inherent or hereditary,
Adventitious or accidental.

put into action, or brought about by the

2. REMOTE, or INDUCING, which depend upon the state of their climate—situation mode of life—indifferetion—or the elective power of mothid particles, called miasmata—virus—essuria —occasioning the

3. PROXIMATE or IMMEDIATE, which are fuch as from their action

action constitute the immediate fource of difease—and from whence arise the

indications of Cure, which could's in the removal of the operating causes; or the preventing the combitution feeling too powerfully certain effects, till the matters organization them on he thrown cut of the habit, either by the efforts of nature, or of art.

But the most eligible mode is the PREVENTIVE, acquired by the consideration of the remote or inducing causes, where practicable—and hence preventing predisposition from being rendered active by intercepting these causes, or guarding the habit against their influence.

อรุ่นสาสาสาสาสาสาสาสาสาสารุ่ารุ่ารุ่ารารารารารารารารารารารารารา

C H A P. I.

FEBRILE AFFECTIONS IN GENERAL.

ALL those are so considered where there is an alteration respecting the pulse and heat; for the most part, an increased quickness of the former, and the latter augmented in some degree; --many of the functions of the machine injured --particularly the strength of the limbs diminished; attended with chillness, languar, latitude, and other marks of weakness, without any local primary disease.

Under this head are comprehended all the favers, of whatever nature, by which the human frame is adjected; but, as they put on different appearances, they are divided under diffinct heads, according to those appearances, as

1. CONTINUED, OF CONTINENT,

2. REMITTENT,

3. INTERMITTENT,

4. HECTIC, and

5. ERUPTIVE.

In which order we shall pursue them ;-but we should first remark, that all those are called

CONTINUED FEVERS,

where they continue from their commencement to their termination without any intermission, remarkable remissions, or exacerbations, that is, increase of violence in the symptoms. To this class belong

I. The simple continued 2. Inflammatory > Fever. 3. Nervous 4. Putrid 5. Anomalous, or mixed

Thele fevers in general begin with lastitude-coldness-shivering, but without tremor or grinding of the teeth, and heaviness of the head-then the heat increases every day till the height, with proftration of thrength, and a conftant defire of lying down --head ach--and thirst--no exacerbation or increase of febrile affection, except from fome perceptible cause. At the decline of the difease, there appears a moisture, fiveat, or some other evacuation.

With respect to sensation, the symptoms discover themselves by a fense of weariness all over the body-a heaviness, attended with giddiness of the head-head-ach-bad take in the mouth-often an imperfect, or deprayed finell -a difficulty and tottering in motion -- unwillingness to speak -- a define to keep in an horizontal polition -- a total want of, or fearce any appetite -- great thirst -- loath -ing of animal food, or any folids -- a defire for watery acidulated cold liquids-no lascivious inclination.

In the cold flate, breathing is small, quick, oppressed :-- in the Lot. deeper and frequent ; -in the cold flate, the pulse is small, intermitting, interrupted, and frequent ; -- in the hot, full and fie-

quent ;-in the declengion, full and undulating.

The faliva is small in quantity, clammy; -- the mucus of the tongue, gums, and lips is greyish, rather vellow, and sometimes black-the urine in the course of the discale becomes hotter and turbid-there is a moitture in the fkin and a fweat in the declenfion of the fever-the flools are liquid, yellow, often fortid-the mucus of the note trilling; and fometimes from thence hæmorrhages iffue. 5

Fevers of this kind are often ushered in with a coldness of the extremities and palenels of the face---very often without any shaking of the limbs ; -- after that there is a constant uniform

heat,

heat, for the most part, except that it is greater towards the beight; there is also in the decleration a fortuets of the fkin.

This is the history of the communed order of levers in general, with fach things as appear in the vital and animal functions with respect to sensation, voluntary motion, appetite, respiration, and the pulse; and also in the excretions and qualities of the folid parts.

Now as all the fevers of this kind have a greater or smaller number of these symptoms attendant, under each head we must enumerate such as will best inform us to which it particularly belongs, that we may be best enabled to make proper distinctions; and as the number continued sever is the least complicated, we shall begin with that.

1. SIMPLE CONTINUED, OR VASCULO-PLETHORIC, FLVER.

Such I would name it, because an increased action of the vascular system, and fullness of blood, are the in mediate causes.

This fever is tometimes of very flight detected, terminating in one, at most, in three or four days, and feldom requiring any medical assistance.

DESCRIPTION. It makes its attack very often suddenly. There is a flight coldness—the whole body grows red, particularly the face, attended with some turgescence, and a vapourous warmth. The head-ach comes on suddenly, the temples throb, the breatning is frequent, the pulse face, uninterrupted, quick, and full. In the decline of the disease, there appears a breathing sweat, with no remarkable change in the unine.

CAUSES. Whatever will fapernaturally increase the action of the veilels, and induce too great fullness of blood in the habit, as errors in diet, too violent exercite, cold, suppression of some natural discharge, retention of some actid matters offensive in the first passages, from some external injury, happening in an healthful constitution.

CURE. Medical aid is feldom in these cases necessary---nature most commonly is the physician. Drinking copiously of watery liquids warm, such as tea, weak broths, lemonade, small negus; abstaining from all folid food; and lying in bed to encounage perspiration, will be all that is requisite.

Or, if medicine must be employed, saline mixtures, or nitrous

powders, may be had recourse to. (No. 1, 2.)

But should the fever put on more violent appearances.--should the pulle not only be full, but rather hard, with any considerable degree of oppression and heat, and the skin dry; bleeding, according to the patient's strength, to the quantity of eight, ten, or twelve ounces, may be advit de-and, in case of enfirences, a cooling faline purgetive (No. 11) arer be administered, to unduce three or sour evacuations; and in order to appears any burry which pechaps it may occasion, a queeing draught in the even-

ing. (No. 4, 5.)

Suppose these should not succeed to our wish, and the symptoms before recited mereals, the palse excepted with serped to its fullness and buildness, these being in some degree abated; and the patient has passed a refficiential; we must then sly to antimonials, as the most essential in encolving the violence of the server. The must eligible of which are, tartaized ant many, formerly called tastar emetic, or the animonial powder of the last London Dispensatory, a medicine answering every purpose of Dr. James's Powder. (No. 6 to 9.)

The first defect the mixture, (No. 8.) or the fecond, if it meets with any traducts of the florach, generally excites vomiting, which florald be encouraged by copiess draughts of chanomile, or weak green tea, or thin gruel—and atterwards the mixture

continued.

It produces also in general a gentle sweat. One or two evacuations by stool, quiets the pulte, takes off the oppression and nauiea; this, by its continuance, and ordering bulm tea, barleywater, or some such diluting liquor, to be drank plentifully, ba-

nith, ia common cases, every complaint.

But, notwithdunding all these efforts, should things wear a more unpromising aspect.—should the sickness and oppression continue; the thirst, heat, and dryness of the skin increase; headach become intolerable; the patient very restless; the pulse keep up, or mere it in fullness and hardness particularly, more blood must be taken away—though, should there be indications of great deb lay, and the pulse slag and grow low, it must be avoided—the feet any be put in warm warm—and, in continuing the antimonials, great care must be taken that they do not operate too violently upwards or downwards, for these would aggravate the symptoms, or bring on a train of others of more serious consequence.

Under these circumstances, instead of the saline mixture before prescribed, the neutral volatile saline (No. 10) is more cligoie, because this, I think, determines more freely to the kin — and, triding as the alteration may appear, I have seen changes

obviously for the better on its bein administered.

Notwithstanding the above caution, if emetics have been omitted in the beginning, particularly if there has been any fickness or nausea, they may be given at any period of the discale, if the strength of the patient will admit. (No. 11, 12.)

SYDEN-

Sydenman lays, "If any one should inquire at what time of the fever I would tone a vomit adminishered, I say positively, as the beginning: but should we be called in so late, which is often the ease, that we could not at the beginning give a vomit to the potent for their relief, yet certainly I thought it expedient that it might be done at any time of the fever, if the distalle has not so reduced the freegth, that its violence cannot be borne—I have," continues Ie, "ordered a vemit without hedisation on the twelfth day of a fever, when all the retchings had ceased; nor was it unattended with advantage."

Due, to return to our fubject. If, by the use of antimonials, the b ds thould not be kept properly open, glyners, (No. 25, 26.)

thould supply the defect, adminutered in the evening.

From this treatment, a continued fever of this kind feldom retains longer than the fifth day; but should it purious its course to any later period, it is difficult to determine at what time it will ceafe.

Here we must be entremely cautious in our prognostic, both with respect to its duration and danger; for there are often in the constitution many latent mirchiefs which do not shew themselves; or some, which manifest themselves not immediately, may be brought upon the internal and vital parts by the sebrile exercious, that when we have a right to expect every favourable conclusion, these suddenly prevent the operations of nature, and in an instant overturn all our flattering prospects.

However, if this fever goes not off on the fifth day, it feldom continues longer than the fourteenth—during that space, we are then to endeavour so to regulate the moving powers of the solids, that they may neither act too powerfully nor too weakly—bence are they to be supported in a state of mod vation—and this we do by thin diet, subacid drinks, such as the stomach can bear and relish; as thin gruels, roasted apples, oranges, boiled turnips, and such like, continuing, under various forms, the use of the antimonial faline mixture.

Befides the atte tion we have to pay to the fystem in general, foractimes the head, stomach, and bowels require our notice, in order to alleviate the particular affections under which they labour—for the head row and then is greatly disordered—differs applied between the shoulders, bathing and fomenting the feet with warm water, bring in these cases relief, and dispose the patient to rest.

If fourness should aff & the stomach and intestines, creating pain and statulence, we should name with our medicines some of the absorbent earths, as magnesia, chalk, hartshorn, crabs eyes

or claws prepared, according as the habit is disposed to costive. nels, or otherwise -under the first circumstance, magnetia-under the last, prepared hartshorn claims the preference.

In the manner above recited should we go on as occasion may require, till nature throws off her oppreffive load at some of her accustomed periods, which will be either on the seventh, ninth, eleventh, or fourteeath day commonly-or, if the fever is of longer duration, leventeenth or twentieth. After this period they

are feldom observed with any accuracy.

But suppose towards the close the thrength of the conflictation appears to be in a debilitated flate, the pulle begins to fink, and the machine requires fome flianulus, in order to roufe it to, and preferve its action—here we must have recomife to such applications as will invigorate the fythem; our former drinks and medicines must be altered; we must now give wine and water, white wine whey, or pure wine --- or, if medicines are prefered, cordial, camphorated and flimulant medicines (No. 13 to '8.)

But wine will best answer the purposes we require, as it is confidered to be the most grateful cordial with which we are

However, if any others are thought more eligible than what we have felected, the class of flimulants will supply a fatisfactory

variety.

Before we close it will be necessary to observe, that much caution is necessary in pronouncing the approach of a crisis, or termination, or its perfect completion-for it fometimes begins and recedea.

On this occasion we should take the symptoms coilectively; and, if they all appear favourable, wait for their continuance; for they will begin on one critical day, and not be complete till the next. If, therefore, the pulse becomes foit and full, and fubfides daily, fomething below a healthful flandard—the urine deposits a fediment to the bottom of the glass, or, on shaking, it fublides - the fkin becomes foft, and a general fweat fucceeds -if the patient's fendes return after having flept, we may venture to pronounce boldly.

After matters are brought to this pleafing conclusion a dole or

two of physic may be exhibited. (No. 10, 20, 21.)

The patient should return gradually to his accustomed course of life, left he should, by throwing food into the babit in too large quantities, oppress the digestive powers, which, with the red of the body, must be in a state of too great debility to perform their functions vigorously. His, diet, therefore, should not only be imail in quantity, but of the lightest fort; because, from viscid food, the machine would labour under the same inconveniences conveniences as above specified—he should eat often, but sparingly, take fresh air, and the moderate exercise, such as his strength will admit, but never pursue it to fatigue himself. Under such prudent management, his spirits and vigour will return rapidly; and he will every day perceive himself making large strides towards his usual state of health.

§ 2. INFLAMMATORY, or VASCULO-SANGUINEOUS INFLAMMATORY FEVER.

Because not only the same circumstances occur as in the former fever, with regard to the increased action of the vascular system, and sulfness of blood—but the vessels have acquired a supernatural firmness, and the blood too great tenacity, by which I un-

derstand an in inflammatory disposition.

DESCRIPTION. The patients at first feel as if they were wearied and had been beaten; are apparently weak, and have cold and hot fits alternating with each other; they tremble, and feel pains all over them, particularly in the shoulders, back, knee, and head: to these succeed an intense and burning heat, unextinguishable thirst; their eyes appear inslamed, with a rednefs and fullnefs of the face; they are fick and vomit; are alfo reftless and uneasy; the pulse is full and strong; the skin dry; the urine for the most part high coloured, but sometimes like water; the tongue rough, dry, brown or black, and furred; blood drawn is very tenacious, and, on standing, covered with a coriaceous substance like buff-leather; they breathe with difficulty; the body is costive; they fometimes cough; are very watchful and delirious; a stupor and drowfiness come on; at last tremblings, twitching of the tendons, hiccough, and an involuntary emission of fæces and urine close the fatal scene. With regard to the heat, it is of a particular kind, which, though it affects the touch very fenfibly at first, yet seems to grow less violent the longer we hold the hand upon the skin of the pati-

As to the pulse, its hardness, strength, and fullness, are in greater degrees than are to be met with in any other species of fever.

And the urine is not only high coloured, but sharp, and in

fmall quantities.

CAUSES. Those which are called the remote or inducing, are said to be, perspiration obstructed; sudden cold; too much exposure to the strong heat of the sun; satigue; anger; hard drinking; too long watching; cold water drank whilst the machine is hot; or, in sine, whatever can put the vessel into too strong and quick action, and for some time continue it.

Dd

The proximate or immediate, acrid and tenacious blood obflructing the very minute, ferous, and fanguinary veffels in different places and increased strength and activity of the vascular system, which the remote causes are concluded to confirm, as well as the appearances of blood taken away—the symptoms mode of cure—and the inspection of dead bodies on diffection for in them the viscera are found in a state of instammation and mortification.

Young people in the vigour of life, rustics, fanguineous habits, free luxurious livers, and all those possessed of strong stamina and tenacity of the circulating sluids, are most prone to fall into this fever.

CHARACTERISTIC SIGNS. This fever generally attacks those who are formed with strong vigorous stamina and dense blood:—it is concisely defined, a great increase of natural heat, a frequent, strong, hard pulse, high-coloured urine, sometimes watery, and the functions of the sensorium a little disturbed.

CURE. This is performed by weakening the strength and activity of the vascular system, lessening the violence of their

action, and thinning the blood.

If we were to remove the irritating cause soon after it had exerted its action, there is no doubt but every good consequence would accrue; but that we cannot do in all cases, particularly when morbid particles have got so blended with the juices, that some time is required before they can be properly prepared for being thrown out of the body;—or, after the increased action had continued so long, that it had by its effects contaminated the sluids; we therefore endeavour to put the frame in such a situation, that no violent mischief shall be created by the progress of the discase; and thus give nature an opportunity of exerting her salutary efforts with esset, and enable her to throw out the offensive materials from the mass of shuids.

For which purpose, if called in in the early stage, we depend upon bleeding copiously, and repeat it agreeable to the patient's strength, until the pulse is reduced to its proper standard—nor must we be deceived by the apparent oppression of the pulse, for by bleeding it becomes stronger—indeed apparent weakness and loss of strength proceed sometimes from too great sullness; to that the volume of sluids seems too powerful for vascular action; and unless this oppression is taken off, which bleeding most readily accomplishes, we should run the risque of their total cessation. Indeed, so necessary is this operation at the onset of these severes, that if it is omitted, the neglect can seldom be recovered during the whole course.

It is most proper before the fourth or fifth day, but, under

fome

fome circumstances, it may be performed at a later period—in difficult and oppressed breathing—violent pain of the head, with high delirium, succeeded by drowsiness, in full and strong habits—for these symptoms indicate an inflammation of the lungs, or a

Superabundant load of blood in the brain.

Notwithstanding it may be right in any stage of the disease, it is only to be advised with extreme caution; for if this operation is carried to excess, so as greatly to weaken the patient, nature may be disqualised for throwing off the morbid matter at the time when the criss should come on; which matter is most naturally carried out of the body, either by discharges from the intestines, kidneys, or the pores of the skin.

With respect to the necessity of repeating the bleeding, we are to be directed by the urgency and continuance of the symptoms: therefore after the first bleeding in fix or eight hours, if the pulse should be nearly, or equally as hard and quick as before, and the other febrile symptoms similar, it may be repeated, though in smaller quantity, and even a third or fourth time, or more, un-

der similar circumstances, may be necessary.

We are next to advert to the state of the stomach and bowels:
—if there should be any oppression, nausea, sickness, statulence, or weight at the pit of the stomach, or fullness there—should the body be costive, we should attempt immediately to clear them of their contents by emetics, (No. 11.) and gentle purgatives. (No. 3. 22 to 24.)

But should there be any inflammation of the stomach or intestines, vomits must be by all means avoided, as they might be suc-

ceeded by the most fatal consequences.

But should not any of the above symptoms occur, we must then endeavour only to take off the spasmodic assections of the skin, and promote perspiration, by creating gentle vomiting or nausea, by administering slight doles of antimonials alone, or mixed with saline mixture. (No. 6, 7, 8, 9.) Warm watery liquids should be drank copiously, the legs and thighs somented with slannels wrung out of warm water, or the same liquid thrown in by way of glyster; for these are highly beneficial in thinning the blood, and relaxing the too tense sibres. And here we must observe, that bleeding, where necessary, should always be performed before we exhibit a vomit, in order to take off the general sullness of the habit, and prevent any congession or obstructions taking place by its operation in the brain

In case of colliveness, we should add small doses of tartarized or vitriolated kali, tartarized natron to the antimonials, (No. 6, 7, 8, 9,) cassia draught, crystals of tartar whey, or intulion of ta-

marinds may be administered. (No. 22, 23, 24.)

We must next endeavour to allay the heat by vegetable acids mixed with finall portions of nitre; and depend on fuch things as are coolin; diluent, and aperient; and correctors of any acrimony which may keep up the irritation-hence all animal fubstances are to be rejected, because they are apt to become too stimulant and heating—and for the support and affishance of nature, we must depend upon barley water—lemonade—apple-water—infusion of wood forrel-current jelly mixed with water-very weak white wine whey mixed mith Seltzer water-in any of which may be diffolved small portions of nitre, so that four or five grains may be taken at a time; or the æthereal spirit of nitre, ten or fifteen drops for a dose-or, the Hydromel of Hippocrates, (see page 178.) omitting the mace; for these are diluent, assist in quenching thirst, preventing the blood from becoming too acrimonious, help to diffolve its tenacity, confequently weaken the force of the vafcular lystem, abate the power of the circulation, take off spalmodic constriction, and promote perspiration; -and these liquids may be varied according to the pleasure of the patient.

Abstinence, as long as the strength will permit, should be advised; but if that becomes defective, it should be supported only by the most light liquid food. If solids be required, which is seldom the case, not any thing should be allowed except thin panada—water or barley-gruel—roasted apple, or boiled turnip. The sweet acescent fruits, when fully ripe, may be taken freely; for, as they abound with watery particles, are also diluting; and as those of the vegetable class afford less nutrition, consequently are less stimulant than such other things as approach nearer to

animal nature.

So long as the fymptoms continue strong, we must chiefly adhere to the saline medicines—antimonials and nitrous powders, (No. 1, 2, 6, 7, 8, 9.) giving the nitre as freely as the stomach will bear it, and varying the form as may be judged convenient; for these medicines are thought to correct acrimony, take off vascular constriction, and promote perspiration.

The room in which the patient lies should be spacious, and well ventilated with cool fresh air, impregnated with vinegar, the effluvia of fresh slowers, and a free circulation constantly permitted; taking care so to dispose the patient, that strong cur-

rents may be avoided.

The bed-cloaths should only, as in health, be moderate, the curtains not close drawn; and, in fine, every thing heating, and which can increase the force and quickness of the pulse, must be prohibited.

The patient should now and then be got up, he will be rendered less restless, preserve his strength more, and not so subject to

increase.

increase of head-ach and delirium; for, by fitting up in an erect posture, the blood will circulate with less force towards the brain, than in an horizontal situation; and obstructions will not be so liable to be formed there, nor will the brain be so likely to suffer depression from a load of sluids.

After proper evacuations having been premifed, fome advice the application of blisters; because, they dissolve the viscid

blood, open internal obstructions, and soften the pulse.

Others are of opinion, that they never can be right though a delirium should come on, if the pulse keeps full, hard, and quick; but think the head is better relieved by bathing the feet in warm water, or applying cloths squeezed out of it to them, and the inside of the thigh just above the knee—for the nervous system must be disturbed and agitated too freely where the heat continues great, the skin dry, with the pulse as represented-hence blisters, while such symptoms appear, and the sibres are too tense, will increase the mischief, from the additional stimulus they occasion.

In delicate constitutions, where there is great proneness to nervous incitability, and muscular irritability rather defective, blisters may be useful, by regulating the motion of the nervous power, and not being capable of producing any great effect on the muscular sibres—but, in strong athletic habits, I should think the practice dangerous; but yet, where the pulse in any constitution grows soft, and begins to slag, either from evacuations, or weakness of the system, brought on in the course of the sever, particularly if attended with drow/sness, or disposition to constant stumbering, towards the height or turn of the sever, at that time they will be found extremely beneficial—by rousing the nervous system, and assisting nature in producing a separation and ejection of the morbid cause.

Should what we have before advised prove ineffectual in preventing costiveness, as more powerful purgatives would be apt to raise too great a commotion, and impede nature in her falutatary efforts, we must have recourse to glysters. (No. 25, 26.)

Towards the evening, in almost all acute complaints, every fymptom increases much with respect to violence, and towards the morning abates; but when the turn of the fever is at hand, the violence continues more uniform throughout nature appearing to exert her utmost efforts to conquer the disease, by throwing off the offending matter—hence the agitation of the whole machine is extremely severe.

If now the skin grows fost and moist, the tongue loses its dryness, the urine begins to deposit a whitish sediment, and becomes less high coloured, and soon after a more prosufe sweat breaks out, the other symptoms abating of their violence, we may expect a happy termination, should these occur upon a critical day, particularly if a sound sleep comes on, followed by refreshment, loss of thirst, the tongue clearing away its soulness, and the head alleviated from its pain and uneasiness.

From these appearances we may conclude a criss is begun; and in its progress, if the pulse grow gradually slower, falling some strokes in a minute below its healthful standard, we may be assured that things have taken a favourable turn, and that the

patient is secure from danger.

But during this contest in the critical period, which will be for some days from the beginning to its termination, cordials may be thought necessary, the best of which is wine, given alone or in whey. If medicines to answer the purpose are thought more agreeable, to what we have delivered from No. 13 to 18, may be added other cordials.

But if I find nature in her critical intention points more to the kidneys than to the skin, I prefer joining the cordials to the solution of prepared kali and lemon juice, (No. 1.) if to the skin,

to that of prepared ammonia. (No. 27.)

But sometimes, from all our efforts, we are not even flattered with a savourable iffue—however we must not despair—nature

often relieves herself at the moment we least expect it.

Therefore, when the constitution seems drooping, and nature appears almost exhausted, when general tremors come on, twitching of the tendons, delirium, and the patient parts with both fæces and urine involuntarily-which appearances are always considered to be the result of strong nervous affections, giving the disease the most unhappy aspect—in this deplorable state we depend upon the repetition of blifters, applied in the following fuccession: 1st, to the back-2d, under the arms-3d, above the wrifts-4th, above the knees on the infide of the thighs-and, 5th, upon the head, if violent pain and much disturbance there, points out the restitude of such an application-and likewise mustard poultices, called finapisms, to the feet, (No. 30.) and give volatile salts-camphor---musk, (No. 31 to 35.) in order to allay fome of these convultive affections which present themselves at this period ... for which musk mixed with valerian is esteemed highly useful.

In cases of extreme languor, snake-root is a very valuable medicine, which may be given in insusion or powder. (No. 36,

37.

As nature, under the violence of these oppressions, being relieved in one point, may have power probably to exert herself more generally from such relief, a VAFOR BATH, as it can be applied

applied in a bed-chamber, and has in dangerous cases been known to scceed, may be tried, as it seems calculated to take off, by its

relaxing power, spasmodic constriction.

Sometimes in this disease, at an early period, people will be much afflicted with the head-ach, delirium, watching, or drow-finess, bleeding at the temples with leeches—applying blisters there—having the head shaved and rubbed with vinegar—or portions of the lungs of a lamb applied warm to the head—blistering and somenting the legs, and applying mustard poultices to the soles of the feet, are useful auxiliaries to the general mode of cure above specified—as is also blistering the head:—or should they have any pains similar to those of pleuritic people,

applying a blifter over the part affected is beneficial.

Sometimes rheumatic affections will be a concomitant—in this case, large doses of nitre will be useful-and should any dysenteric appearances, fuch as uneafy pains in the bowels, propenfity to go to flool, without producing any evacuation; a grain or two of ipecacuanha, given now and then, may act as gentle aperient, folicit the discharge of the irritating matter, and carry it out of the bowels. To me it obviously appears, that these applications are only to alleviate the fymptoms arising from the local affection of a part, from a more general cause; whilst, at the same time, we must persist in the general mode of cure ;why we endeavour at their particular alleviation, is to prevent nature from being disturbed in her operations by these distressing or anamalous symptoms; as by inattention to them the danger might be increased, and the malady prolonged; for these fymptoms, for the most part, are subdued by time alone, and the fever being kept within proper limits.

§ 3. NERVOUS FEVER.

This is so named because the nervous system appears to be the part most affected. It differs from the inflaminatory sever in the part of the constitution attacked, and occurs in such as are dissimilar. Here the nervous system is desective, attended with little or no intenseness of vascular motion; blood also poor and thin, and the nerves extremely incitable. This is also called the slow sever, because it is slow in its progress compared with other severs, paticularly the foregoing.

DESCRIPTION. This fever makes its attack with dejection of spirits--loss of appetite--oppression--disturbed sleep, or restlessness--the patient often sighs and groans involuntarily--is frequently terrissed, and affected with uncommon lassitude after exercise, the that should be slight, and at the same time has cold and hot sits succeed, and alternate with each other--he is troubled

with nausea, and a vomiting of insipid phlegm, which come on in a few days after the attack, with giddiness and pain of the head-extreme prostration of strength-no remarkable heat-no thirst-the pulse is frequent, weak, and sometimes intermits-the tongue continues moit, white, and is covered over with a viscid mucus-there is an oppression at the pit of the stomach, and the breathing difficult-the urine is pale, watery, and sometimes like milk whey-the face red, and slushes, at the same time that the feet are cold-the mind is slightly disturbed by ridiculous imaginations, which continues, but without any violent delirium sometimes immoderate sweats break out, or colliquative, dissolving looseness comes on-the senses lose their quickness, and become dull and heavy-with anxiety and fainting attending.

Towards the close, when nature appears almost worn out by the continuance of the disease; the tongue trembles—the extremities grow cold—the nails livid—they lose the power of fight and hearing—the delirium is converted into stupor, and a lethargic disposition—the saces and urine pass away involuntarily—twitching of the tendons comes on—and generally convulsions close the seene,

in death.

CAUSES. The remote or inducing causes are said to be relaxed sibres, and a weak nervous system—too powerful evacuations—salivations from taking mercury too frequently repeated.—immoderate venery—mental affliction—watching, and necturnal study—moist and stagnant air of subterraneous jails and confined places; a crude and too thin diet, particularly of cold and watery fruit—watery and viscid drinks—rainy seasons—a moist and soft winter—and, in sine, all those things which by slow de-

grees debilitate the nervous fyflem.

The proximate or immediate, great apparent incitability in the nervous fystem--a lentor, and viscidity of the serum, lymph--and thin humours with acrimony from contagion or obstruction--and a torpor, or defect of intenseness of motion in the vascular system; which are obvious from the blood taken away--phlegm thrown up from the stomach--and appearances agreeing with diseases arising from corrupted and contaminated serum. Hence it is supposed to exert its instructed upon the most minute, serous, lymphatic, and nervous vessels; but rather upon the whole brain, as the pale wan colour, paleness and dryness of ulcers, a deprivation of the senses, extreme debility, and suppurations in the brain upon diffection, point out.

CHARACTERISTIC SIGNS. In defining this disease, should say, it was an affection of the nervous system, in which there was apparent incitability, with a thickness of the serum lymph, and thin humours—a torpor, or defect of intenteness e

motion in the vafcular fystem, independent of nervous incitability, discoverable by slight chills--shivering--and uncertain sluthings of heat--sinking and dejection of spirits--frequent involuntary sighing--general weakness quick irregular pulse--pale coloured urine--remarkable propentity to spannodic assections--no distressing thirst--sometimes retching, though nothing but simple

phlegm evacuated.

CURE. As affections of this kind will arife from different kinds of foulnets in the first passages, if we are called in early, its progress is easily prevented, by gentle emetic, (No. 11, 12.) and small doses of rhubarb, manna, castor oil, and some such gentle aperients, (see Emollient, and astringent Aperients, under Cathartics, page, 172.)—but it in too advanced a state, when the fever is completely formed, which is almost always the case, it will pursue its course in spite of all our endeavours.

The indications of cure, are to guard the h. bit so far, that the worst effects may be prevented; and, as in inflammatory severs, we endeavour to weaken the system, we must in this attempt to invigorate the constitution, and support it by mild and proper cordial stimulants, not given at first of too powerful a na-

ture.

Bleeding, apt to be applied on flight occasions, is here almost always injurious, no disease bearing that operation so badly. At the attack, we should wait for nature pointing out the precise disposition of the malady. Sometimes, indeed, in some epidemic constitutions of the air, when at the commencement it attacks habits which are full of blood, putting on the appearance of inflammatory affection, a sew ounces may be taken away, but not repeated.

Where there feems to be a determination of blood to the head, difovered by pain, heaviness, and giddiness there, as sometimes happens, leeches may be applied to the temples; or cupping at the back part of the head may be had recourse to; but not on

trivial occasions.

There are fome fymptoms which shew themselves, such as dissibility and oppressed breathing, and are called peripheumonic; but these arise not from an instammatory cause; as the breath is not hot, nor is there any cough, nor different degrees of pain; but the pulse is small and contracted, and the extremities cold—these shew the affections to be nervous, not valcular;—bleeding would therefore be highly injurious. From their local, as well as general effects, mild emetics are certainly useful, from unloading the stomach of any viscid materials, and giving an opportunity for medicines to communicate their effects to the habit and nervous system more freely, by having the internal coat of that organ in the coat of that organ is the contracted of the coat of that organ is the coat of the coat of that organ is the coat of the coat

more openly exposed to their action—and here ipecacuanha is preferable to tartarized antimony, as it weakens less the influence

of the nervous system. (No. 38.)

The body should be kept open by gentle aperients (172) only, as common purges at the onlet have produced finking of the spirits, faintings, and other distressing symptoms—or domestic glysters, (No. 25.) may be administered, in case of costiveness, eve-

ry fecond or third day.

Blifters applied through the whole course of the disease, succeeding one another, with moderately cordial and diaphoretic medicines, (No. 27 to 29.) and a well-regulated diet, are what must be chiefly depended upon; for these disolve the viscidity of the serum, invigorate the system, and render the nerves more uniform and powerful in their action—hence promote intensible perspiration, or a gentle moisture on the surface of the body; but they should not be pushed so far as to induce prosuse sweatering, for a continued sweat exasperates the sever.

To the diet we should be particularly attentive, in order to support the strength of the patient; for these severs are apt to be of long duration; and this should be of the stimulant, cordial, and nutritious kind—of which the sick should be folicited, to

take frequently in moderate quantity.

White wine whey, thin gruel with wine in it, may be used freely, or wine and water—and particularly towards the termination, chicken broth, beef-tea, thin jellies of hartshorn, sago, and panada with wine. Indeed wine alone may be liberally administered, especially if the pulse grows soft upon its use, if there should be lowness, with a softness of the pulse, and a low drowfy delirium; for under these circumstances it produces sleep. I have known patients, particularly one lady, take three pints in 24 hours with advantage; but it has been affirmed, some quarts have been given in the same space of time.

All the liquids, if defired, may be drank cold, as they are only necessary to be prohibited in cases of local inflamma-

tion

There is little doubt but a judicious and well-regulated diet, with the use of blisters, well-timed and well-applied, will perform a cure—taking care to keep the patient as quiet as possible both in body and mind—He should be kept only of a moderate warmth, neither exposed to too great heat or cold; and his spinits exhibitated as much as possible, by consolatory conversation of his medical attendants, and certain promises of recovery, dishipating all gloomy or unpleasant ideas.

With regard to the application of blifters, fo great appears to be their ute, that fome necessary rules should be pointed out.—

They should certainly, in order to reap the greatest benefit, be applied at first, as soon as we know the precise nature of the malady; but if neglected till the system manifests high degrees of incitability, discoverable from acuteness of fight, touch, and hearing; they must be omitted till some degree of insensibility makes its approach—for, in the first instance, they may prevent the accession, or alleviate the violence of the symptoms—in the second, they would increase them before the period stated.

As the blifters are only applied to promote stimulus, not any evacuation, because that would tend to debilitate the system, and he of differvice; therefore, as soon as the blister is fully raised, it should be cut, the aqueous sluid let out, and nothing applied to the part to increase the discharge. In the first instance, some have advised them to be put upon the legs; but, in case of drow-siness and stupor, upon the head, and sinapsims to the seet; to which should the last give too great pain, they may be changed for poultices of milk and bread.

In order to relieve the peripneumonic symptoms, (217) blisters to the arms, thighs, or legs are proper, with gentle cordial medicines, (No. 13 to 15.) with the addition of acetated ammenia, or the cordial faline draught, (No. 27.) may be administered, cordial mixtures, or julep occasionally, (No. 13, to 15. 28, 29.)

or sal volatile, from .20 to 40 drops in mustard whey.

After the continuation of this fever for ten or twelve days, or longer, should a remission come on; that is, should it at times appear to abate much of its violence, and then come on again—or should sweats too much exhaust the patient, Peruvian bark, administered with cordials, is highly proper, in such forms as the stomach will best bear, either insufed in wine, in decoction, or insufed only in hot or cold water, (No. 39 to 49.)—though the first form is esteemed the best, sometimes it is more agreeable to the stomach in some other mode.

In the declention of this fever, where the remission or intermission was very distinct, Huxham gave the bark conjunctively with the saline draught, and found it more essicaci-

ous.

Bark also tends to prevent or check mortifications, which sometimes come on from pressure by long lying, blisters, or si-

napifms.

In cases of tremblings, twitching of the tendons, and convulfions, musk, in doses, according to the violence of the symptoms, and mixing it with valerian, as adding to its esseacy, (No. 31 to 35.) are beneficial.

In cases of looseness during the course of the complaint, if moderate, they may not be dangerous; still if profuse, they

E e 2 fhould

should be checked, though not entirely stopped-they may be moderated by flight doies of rhubarb and opiates, or abforbent or stringent juleps. (No. 42, 13) The white decoction and red wine will be a proper drink.

Or, we may endeavour to promote gentle sweat, in order to divert the fluids to the fkin, by mild opiates, as camphorated tincture of opium, from twenty to forty drops, or the opiated contection, from one feruple to half a dram to a dole, may be added to any of the cordial mintures, (No. 13 to 15. 28, 29.)

and given a directed in the abtorbent juleps.

And, laffly, if aphthic, or though, should come on, attended with ulcerations of the throat, here detergent gargles are ufetul, (No. 44 to 47.) and gentle emetics, (No. 11, 12. 38.) But if Iwallowing is nearly obdinated by a quantity of vilcid phlegm, stronger may be administered, which will be formed by increasing the dofe of ipecacuanha, or tartarized antimony in each.

Though, should a falivation come on without aphthæ, and that pretty freely, D. HUXHAM confiders it, as it really is, a favourable fign-for, fays he, " when this happens, with a kind-" ly moissure of the skin, I never despair of my patient, how-

" ever weak or stupid he may seem."

As there feems to be to much danger in this fever, from the very beginning to the termination, it may afford some benefit to be acquainted with these tymptoms which may give us flattering hopes; and to know those from whose appearance we may

be enabled to prepare ourselves for the satal catastrophe.

If the delirium should be slight, no great debility-if the pulse should, upon the administration of cordials, become more full; and about the termination of the difease, a gentle sweat or loofenefs, but particularly a fallivation without aphthæ, come on-if any tumors appear about the ears-and a miliary eruption shews itfelf, without any profuse sweat having preceded, we may have reason to expect a favourable conclusion—but if a strong delirium fhould continue above four days-if there thould be copious evacuations—a profuse unicasonable sweat from the chest, head, and neck-the feet and legs only more dry and cold-twitching of the tendons-trembling of the hands and tongue-a colliquative or diffolving loofenels-with a weak pulle---lofs of fight---and impeded deglutition, accompanied with an hiccough .- thould the hands grow cold---the fauces livid---blood flow from the veffels --- and spots like flea-bites appear---there can remain little hope of escaping the most fatal consequences.

With respect to a deafness coming on, it has been considered by some as a favourable omen, by others the reverse; at best it is but of dubious import, and not to be depended upon; for from

experi-

experience I can speak, that I have seen it an attendant symptom on both death and a recovery.

§. 4. PUTRID, OR SANGUINEO-PUTRESCENT FE-VER.

Which term I think applicable, because the mass of blood appears to be materially and principally concerned in this sever—for in those of which we have before treated, the chief disturbance has been created primarily in the vascular and nervous system.

But it may be asked, how conces it that this fever sometimes begins its attack with strong symptoms of an inflammatory, at others of a nervous, sever? This variation happens most likely in its different degrees, adequate to the sumer or loofer cohesion

of the particles of blood.

For if putrid matter was to be generated in, or absorbed into the habit, whose blood was of a firm texture, and vascular system had proper tension, it would be longer before indications of absolute putridity having taken place in that constitution would present themselves, than if the nervous system had been in a state of relaxation, and the blood thin and poor. There can be little doubt of this fact—and that this deviation is owing entired to the nature of one constitution being able to resist the effects of the putrid cause longer than the other. And, indeed, if we consider that those whom experience has pointed out to us most subject to this disease are, the infirm; such as labour severely, and live in a state of poverty; the luxurious and indolent; the pensive and melancholic; those who sit up late; those of cold phlegmatic constitutions; we shall need little other confirmation of our affertion.

DESCRIPTION. Here we shall enumerate the general catalogue of symptoms, and then specify such as bespeak its commencement; in order, as early as we can, to be enabled to distinguish this sever from the two foregoing, as success greatly depends upon this knowledge; they requiring essential deviations in some respects in our modes of cure--- for the accomplishing of which much depends on the method of treatment at the onfet.

In this fever the heat of the body is intense, remittent, and gives a smarting sensation to the singers of those who apply the hand to the skin of the sick, though at sirst not so great as in inflammatory severs, still daily increasing—the pulse intense, small, and unequal—there is a pulsation of the arteries, which run up into the head through the neck into the brain, and those of the

temples-extreme weckness and prostration of Brength, and that very often sudden .-- the patients are dejected, and forebode the work confequences --- they are oppressed with nausea, and vomiting of dark-coloured bile --- pain of the head and temples --- have their eyes inflamed, full, heavy, --- and a fixed pain, often fevere, over both eve-brows and at the bottom of the focket, or orbit --- their complexion of a dingy hue --- a ringing in the ears -- their breathing is difficult, interrupted by fighing --- and the breath ftrong, or fortid-they are troubled with pains in the stomach, back, and limbs -they lie down with uneafiness---tremble-are delirious-the tongue at first is white, afterwards black and dry-the lips and teeth covered with a thick foul fordes—the blood livid, much broken, or very weak in its texture, and quickly runs into a putrid flate-their thirst insatiable, attended with a bitterness of the mouth—the urine in the beginning is of a pale colour, but in progress of the disease very red, nay sometimes black, dropping down a dark-coloured sediment like soot-the sweats are fortid. and frequently appear tinged with blood-the stools smell offenfively, are fometimes livid, black, or bloody-finall livid spots, like flea-bites, called petechiæ, and, if broader, vibices, make their appearances-also hæmorrhages, aphthæ, ulcerations of the fauces, and hiccough, and fætid, fanguinary, dyfenteric affections, probably from internal ulceration and mortification, determine hastily the fate of the patient,

CAUSES. Those which are remote or inducing are faid to be, feeding too much on animal food, particularly fish—eating confiantly, as the failors do, falted, and half corrupted fiesh, and drinking putrid water—being in habits of taking alkaline, fixed, and volatile falts, and aloes—corrupted fruit—moist southerly winds, attended, or rather preceded by great heat—vapor of stinking waters—or from fens nearly dried—or from putrid animal or vegetable substances—the stagmant and foul air of hospitals, ships, prisons, and workhouses—feeding on corrupted grain—contagion—or any kind of putrid essentials.—for these dispose

the fluids to become putrescent.

Those which are fixed to be the proximate or immediate causes are, a putrid dissolution of the humours, particularly of the red particles, as we have a right to conclude from the effect of putrid ferments dissolving and breaking down the texture and tenacity of solid and solid substances wherein it takes place.

Not only from the fymptomatic appearances of this disease have we reason to be apprehensive of the most fatal consequences in general, but we shall be further consirmed, on the diffection of those who die of it, which show the brain and viscera, parti-

cularly the flomach and intestines, in an inflamed, and often in a mortified state.

CHARACTERISTIC SIGNS. In order to distinguish the putrid fever in its earliest attack, or very soon after, we must observe, that the degrees of debility, oppression, and nausea are more considerable than in any other sever: the postration of strength sudden and violent has for its associates extreme despondency, or infensibility, and want of appresention to an uncommon degree,

which bespeaks great danger:

The loss of appetite, or leathing of food, sickness, languor, and dull pain, of the head, similar to what happens in the two former fevers before described, which attend, when it comes on, as it sometimes does gradually, are in the beginning always more severe and sudden than in the inflammatory, though seldom so much so as in the nervous sever. Besides, the smallness of the pulse, the dejection of spirits, the broken texture of the blood, the purple spots, and putrid state of the excrements, distinguish it from the inflammatory sever. The degree of heat, the very high-coloured urine, the thirst, the spots, and putrescency, from the nervous sever: And its formation is rendered perceptible by coldness and shivering, which has for its associates nausea, vomiting, giddiness, consultion of the head, extreme and sudden prostration of strength.

CURE; The indications of which are, to endeavour to support the strength, counteract the putrescent acrimony, and regulate the action of the nervous system, by giving strength and activity to the debilitated sibres, correcting the putrid state of the

fluids, and promoting the discharge of morbid matter.

And under some circumstances, bleeding in this sever at the beginning has been advised, where it has attacked robust conflictutions sull of blood; and here, perhaps, once it may be right; but not without the symptoms run to an alarming height, would I advise the operation; and then only in order to prevent the fatal effects which might be induced by the violence of some of them: for, though the pulse should be at first full and strong, on taking away blood it soon sinks, and sometimes so much, that we labour in vain afterwards to get it raised. Without, therefore, we have evident signs of an inflammatory state of the blood, and that the brain, lungs, or some other of the vital parts are threatened with inflammation, we should never bleed—and, under the above circumstances, then only in the beginning should a few ounces be taken away, merely as an alleviator of a dangerous symptom.

Afterwards the first passages are to be cleared from their contents by gentle emetics, (No. 11.) giving small doses of antimonials. nials, and these repeated every second hour, (No. 6 to 9.) For wherever the semptoms, which seem to indicate the use of the lancet, are violently urgent, they alone are the safest applications. But we should be careful not to occasion profuse discharges, which may produce too great lowness. If the antimonials cause not too or three stools, a gentle aperient may be given, (No. 22 to 24—49 to 51.) or glysters, (No. 25, 26.) which may be re-

peated every third day.

These things being premised, our chief depedence is on such medicines as give strength and power to the system, and some of those called antideptics, or correctors of putrescent acrimony, (Page 193, 194, 195) (No. 39 to 41, and 52 to 54.) particularly those fruits which have sweetness coupled with acidity, (Page 193.)—the antiseptic whey, (No. 48.)—fermented, or mineral acids, (Page 194.)-camphor, (Page 149.) (No. 15. 54.)-and bark, (No. 30 to 41. 59. Page 194.) particularly, which has been known to produce a flonishing effects in a highly-diffolving state of the blood, where hæmorrhages have from that cause been produced. With these medicines we should begin, as soon as ever we perceive the diffolution of the blood has taken place, from the appearance of purple spots or hæmorrhages; not waiting, as in other malignant fevers, for any remillion; for it is on bark, camphor, and wine we must chiefly depend for success in these cates, coupled in some of melnorrhages with astringents; to which we shall foon advert.

I would not advite, as in the cases of nervous fever, the use of stimulants in conjunction with bark, (No. 40, 41.) but where the nervous fystem appears to be extremely torpid; then, I think. they give great power to that, and render it more active; for I am fully perfuaded, that it produces its good effects, by giving firmnels to the folids, equability of action to the moving powers, preventing the effects of putrid diffolution, and enabling them to separate and throw off the morbid materials, rather than correcting the acrimony, or preferving the texture of the blood by any other means. And this feems in a great degree to be corroborated by the opinion of HUXHAM, when speaking of these fevers, whose practice in these complaints was very considerable, fays, " Though nature very frequently affects to discharge the " morbific matter in putrid malignant fevers by vomits and " flools, yet her more constant efforts are through the pores of "the fkin ;- and I folemly affert, I never faw thefe fevers com-" pletely carried off till more or less of a sweat enfued; if it or proves moderately warm, and equally diffused over the whole

body; if it comes on about the flate of the difease, and the pulse grows open, soft and calm a little before, and during its

continuance; but if very profuse, cold, clammy, or partial about the head or breast only, we have much more reason to

"fear than to hope from it. If profuse sweats break out in the beginning, they are generally pernicious, should a fever super-

66 vene."

Under the circumstances recited above, though blisters are faid not to be useful in the beginning, because the nervous system shows no signs of torpor; yet are they often succeeded with happy effects, when people become stupid, drowsy, and insensible, a d, indeed, at any time, if the pulse is very low, the urine and excrement pass off involuntarily, which I have observed

in an early stage.

Wine, as it is an universal cordial, so it is the best, which may be given liberally; amongst the most eligible of which are clatet, red port, and old rhenish; or, where they cannot be had, from their dearness, ale or porter may be used. As for food, gruel, panada, sharpened with orange or lemon juice, roasted apples, fruit of all kinds—for drink, the wines above mentioned mixed with water, lemonade, orangeade, wine wheys of different forts, apple water mixed with wine, vinegar whey, old found cyder, and all those liquids of an acescent nature, or which correct putrescency, should be indulged in.

The room in which the fick is confined should be well ventilated, vinegar sprinkled on the beds, and round the room, fresh slowers and aromatic herbs strewed about; the patient should have clean linen often renewed, and the stools be removed as early as possible, whether they pass voluntarily or otherwise; for nothing refreshes the fick more than cool air and cleanli-

ness.

By the means here generally described we shall commonly so assist and invigorate the constitution, as to enable it to throw off the more morbid matter, which is done by various ways, but most frequently by sweat, to assist in which operation, Camphorated Vinegar is strongly recommended, (No. 55.) but, if joined with an opiate, Huxham says, it is the most certain sudoristic in nature—the solution though, by itself, promotes perspiration and gentle sweat more certainly than any other medicine; bein des where mild stimulants are necessary, it heats less than volatiles, or ardent spirits.

Nature formetimes conty ives the mode of expulsion for the morbid matter by the bowels, hence a diarrhæa, which, if attended with treathing sweats, or a warm moisture upon the skin, is always serviceable, and we may flatter ourselves that this is a suc-

ceisful effort.

At others, she relieves the habit by abscesses, formation of F f matter

matter in different glands, (Page 25.) such as those under the ear, the arm-pits, or groin; or, by throwing down highly acrimonious and corrosive humours into the legs, about the hips, or mostly the lower part of the back, assisted in this effort by continually lying—hence is mortification of the integuments induced, forming thick sloughs, which leave deep, spreading ulcers, from a supply of a corrosive sluid called ichor. Here we must rely chiefly en Peruvian bark, to produce, by its invigorating power, a separation of the parts mortified.

But fometimes, whilst we are exerting ourselves to promote every good purpose, by a plan judiciously conceived, and well selected applications, some accidental occurrences will arise in different parts, which, if neglected, or judiciously managed, will frustrate our intent, and every effort of nature. Whatever, therefore, threatens to sink the patient, or disturb nature's general operations, must be, if possible, checked, or totally sub-

dued.

Should a bamorrhage, as fometimes happens, come on, vitriolic acid may be added to the bark decocion, (No. 53.) or it may be given with any other vehicle, or the common drink may be acidulated with it, and given pretty freely. Should not these succeed, alum, or alum-whey may be added, (Page 189.) or given in powder. (No. 56.)

Should a profuse diarrhau make its appearance, and give us leave to suppose that the constitution by this means would be enseebled, it must be restrained only gradually; for if we lock up the matter suddenly, without supplying some other more gentle mode of passage out of the machine for the corruped sluid, internal mischief might be occasioned in the intestines, by the

irritation it would there produce.

We must therefore endeavour to determine the suids to the skin, by some well-adapted diaphoretics, (No. 57, 58.) and, at the same time, should the stools continue copious, and extremely sectid, glysters of fixable air, with which some mild watery antiputrescent liquid is impregnated, or fixable air may be thrown up alone, for this is a powerful corrector of putrescent acrimony, and would take off the stimulus of those vessels which pour out their contents into the bowels, called exhalent, and render the medicines given more effectual in pushing forwards, or soliciting the humours to the skin.

Sometimes there will occur violent vomiting, which in this fe-

ver is not unufual.

This ought to be reffrained, and generally our fuccess in the attempt will be pretty certain, by giving the saline draught in a state of fermentation. (No. 59.)

By

neis

By the means of this the offensive and foul matters in the stomach, and flexure of the duodenum, (42.) are supposed to be corrected, and thus, by removing part of the fomes, (that is, matter which created the uneafy fenfations of the flomach, and was a means of supporting the febrile affections) of consequence lessen the naufea, and other fymptoms indicative of its presence, as well as, in all probability, shorten the duration of the fever.

Another peculiar accident may happen, though perhaps very rarely, which we ought by all means to be guarded against. Bark, upon which we in this fever place fuch dependence, will not agree with all constitutions, decoction of pomegranate bark, and chamomile flowers, may supply its place, and is said to answer every purpose, (No. 60.)

Though it may be sometimes the case that bark will no agree with our patients in the common modes of administration, still I have never found but in some of its forms it may be made to answer every purpose.

By beginning with the cold infusion, and gradually increasing its power, I have been enabled to administer it in all its complicated forms, and produced its defired effects.

Eruptions of different colours, red, purple, black, dun, or greeninsh, called petechiæ, strike out sometimes toward the close, or earlier, of different fizes; but these seldom bring any relief from oppression, sickness, or other distressing symptoms-the redder they are the better-and it is a favourable fign where those which are of a black or violet colour become of a brighter colour; for these coloured spots bespeak a high degree of putreicent acrimony, and activity, bringing on a dangerous state of fanguinary diffolution-fo the change of colour to that which is most favourable, shews the degree of mischief lessening, and their causes growing weaker.

About the eleventh or fourteenth day, miliary eruptions with a white appearance break forth; fometimes fucceeding profuse fweats, which not unfrequently happen at this time. feldom relieve; but if there appears a red, smarting, itching rash, or large, fretting watery bladders, they are ferviceable. But we may have hopes of recovery from the breaking out of a scabby cruption about the nose, lips, and corners of the mouth—the more angry and hot it is, the more favourable the omen. these we may add, if the symptoms are mild-if a looseness or fætid sweat should break out at the decline of the disease, there is confiderably less danger, than where there is no thirst-the fauces inflamed-a large crop of black eruptions, which fuddenly recede—a laborious respiration after their eruption—a swelling of the belly with loofeness-fætid and ichorous stools-cold-Ff2

no of the extremities-and convultions-for these afford most

calamitous portents.

break out on the infide of the mouth—for they are foon fucceeded by putrid ulceration of the throat, &c. bringing along with them clifficulty of twallowing, and hiccough, in the first instance—atterwards, seeid, bloody, and dysenteric evacuations, probably from ulceration and mortification of the intestines.

But when patients have fortunately passed the stage of satality, they often become dropsical, or have watery swellings in their legs, we must not, under these circumstances, depend on purgatives to evacuate the watery shuid, as in other dropsies—but bank, (Page 194.) steel, and the natural chalybeate waters. (Page 139.) to strengthen and invigorate the vascular system, and promote

absorption. (No. 61, 62.)

But, in order to prevent a relapse when the criss is perfected, from putrescent or offensive matters accumulating in the still passages, a gentle purgative of two, (No; 2. 19, 2c, 21.) is absolutely requisite—and a course of aromatic bitters, joined with chalybeates, (No. 63, 64, 65.) or some of the chalybeate waters, (Page 139.) with light, nutritious, easily digestible food. (Page 209.)

And here we must observe, that where we find any prevailing acid upon the stomach, we would advise steel to be given in substance—where not, some of the chaly beate salts, of which the tartarized iron, (Page 139.) is supposed by some to be the best, and may be given instead of vitriolated iron—and it is said to have proved efficacious where all the others have sailed; and is more soluble in the animal sluids.

The medicines above prescribed, or some others of the same kind, are thought necessary, in order to recover the tone of the viscera, and enable the digestive powers to assume their wonted power—which being neglected, a soundation may be laid for chronic complaints, by the constitution's being loaded with acrimonious and ill-conditioned humours, and subjecting the patient to jaundice, dropsies, consumptions, or some such similar mischief,

We have now finished our account of simple fevers: and as we consider all the others, whatever their appellation, to belong to one of the foregoing, simply, or conjointly, we shall be under the necessity of having recourse to some of the modes of cure, here specified, in all; and have therefore chosen here to add the forms of medicines made use of in these fevers, referring in the body of the work occasionally to the more general catalogue, that

out

our reader may be supplied with a larger number of materials, from whence he may make his own selection.

Besides, he will, by closely studying these, be enabled to see the nature of medicinal combination; and will pave the way for his more readily understanding the management of severs in a more

complicated state.

Nevertheless, notwithstanding we think the remedies here supplied are sufficient for enabling the practitioner to be as useful as possible in all sebrile affections, we shall make occasional additions in each, where any circumstances of advantage present themselves, either from their peculiarity, or any local affections with which they may be combined.

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THE

FORMS OF MEDICINE

SIMPLE CONTINUED, INFLAMMATORY, NERVOUS, and PUTRID FEVERS.

No. 1. SALINE MIXTURE.

Take kali prepared, " ' t dram.

Lemon juice, 2 ounces 2 drams.

Diffilled or boiled Water, 5 ounces. Sugar, 2 drams.

Mix.-Dose. Four table spoonfuls every two or three hours.

2. NITROUS POWDER.

Take Nitre powdered, 6 or 10 grains.

Crabs Claws prepared, 20 grains.

Sugar, 30 grains.

Mix—and take it in the manner above recited.

. 3. Cooling Saline Purge.

Take milk of Almonds, or

Decoction of Barley, 10 ounces.

in which dissolve

Vitriolated Natron, 17 ounce.

or Tartarized Natron, 1 ounce.

or Vitriolated Kali, $\frac{1}{2}$ ounce.

Dose. Four table spoonfuls every third hour, till the defired effect is produced.

No. 4, ANODYNE, OR QUIETING DRAUGHT.

Take Distilled Water,

Spirit of vitriolic Æther,

Tincture of Opium,

Syrup of White Poppy Heads,

3 drams.

Mix.-

or,-5. SALINE ANODYNE DRAUGHT.

Take Kali prepared, 10 grains.

Lemon Juice, 2 drams.

Distilled Water, 1 ounce.

Tincture of Opium, 15 drops.

Syrup of White Poppy Heads, 2 drams.

Mix.-

6. ANTIMONIAL MIXTURE.

Take of tartarized Antimony,
Rose Water,
Syrup of Sugar,
3 ounces.

Mix. - Dose. One or two spoonfuls every fix or eight hours.

or --- 7. ANTIMONIAL POWDER.

Take Tartarized Antimony,
Prepared Crabs Claws,
Sugar,
3 grains.
5 drams.

Dose. Twenty or thirty grains.

8. ANTIMONIAL SALINE MIXTURE.

Take Saline Mixture, (No. 1.) 8 ounces.
Tartarized Antimony, 1½ grain.

Dose. Four table spoonfuls every fourth or fifth hour.

or-9. Antimonial Bolus.

Take Antimonial Powder, 3 grains.

Conferve of Roses, 1-2 a scruple.

Syrup of Sugar, sufficient to form a bolus, which may be repeated every fixth hour—or the Antimonial Powder may be given with some of the absorbent Earths, as in No. 7. and the dose of Antimonials may be augmented or decreased as the stomach will bear them.

No. 10. NEUTRAL VOLATILE SALINE MIXTURE.

Take Acetated Ammonia, 2 ounces.
Peppermint Water, 6 ounces.
Tartarized Antimony, 1 grain.

Syrup of Saffron, 1-2 an ounce. Mix.—Dose, &c, similar to No. 1.

11. EMETIC MIXTURE.

Take Tartarized Antimony, 6 grains.

Distilled Water, 6 ounces.

Syrup of Saffron, 1-2 an ounce.

Mix.—Dose. Two table spoonfuls, repeated every half hour, till the desired effect is produced.

or-12. EMETIC DRAUGHT.

Take Ipecacuanha Powder,

Tartarized Antimony,

Pennyroyal Water,

Syrup of Saffron,

20 grains.

1 grain.

1 ounce.

Mix.—Let this be administered in the evening, and the stomack well washed with chamomile-flower tea, thin gruel, or any other simple aqueous sluid drank warm.

13. CORDIAL MIXTURE.

Take Peppermint Water, 6 ounces.

Spirit of Nutmeg, 1 ounce.

Aromatic Contection, 1 1-2 dram.

Compound Spirit of Ammonia, 40 drops.

Syrup of Saffron, 1-2 an ounce.

Mix .---

or—14.

Take Cinnamon Water,
Spirit of Cinnamon,
Ammonia prepared,
Aromatic Confection,
Compound Spirit of Lavender,
Syrup of Saffron,

of each 1-2 an ounce.

Mix.

15. CORDIAL CAMPHORATED JULEP.

Take Camphorated Mixture,
Peppermint Water,
Tincture of Cinnamon,
Syrup of Saffron,

1 ounce.
1 1-2 ounce.

Mix.—Doses. Four table spoonfuls every fourth or fifth hour; and three at any time, when low, faint, or fick.

No. 16. CORDIAL STIMULANT BOLUS.

Take Prepared Ammonia,
Camphor,
of each 5 grains.
Aromatic

Aromatic Confection, 10 grains Syrup of Saffron, sufficient to form a bolus.

dr-17.

Take Snake-root, contrayerva, powdered, of each 5 grains.

Aromatic Confection, 10 grains.

Syrup of Saffron, fufficient to form a bolds, to be adminiftered every four hours, washing it down with two or three table spoonfuls of the following julep.

18. CORDIAL JULEP.

Take Cinnamon Water, Tincture of Cinnamon, Syrup of Saffron, 6 ounces.

1 ounce.

1-2 an ounce.

Mix.

19. PURGING DRAUGHT.

Take infusion of Senna,
Manna,
Tincture of Senna,
Rhubarb in powder,
Compound Spirit of Lavender,

2 ounces.

of each 1-2 ounce.

or 10 grains.

drams.

Mix.-

or-20.

Take Rhubarb, in powder, 25 grains.

Jalap, 6 grains.

Cinnamon Water, 1 ounce.

Syrup of Orange-peel, 1 dram.

Mix.

21. PURGING PILLS.

Take Rhubarb in powder, 30 grains.

Mucilage of Gum Arabic, sufficient to form it into pills

-or fyrup may be added to make it into a bolus,

And of these forms may be taken in the morning early; and when they begin to operate, worked off with weak broth, or thin gruel.

22. CASSIA DRAUGHT,

Take Distilled Water,
Acetated Ammonia,
Tartarized Antimony,
Cassia Electuary,
Syrup of Roses,

1 1-2 ounce, 2 drams, 1 6 or \(\frac{1}{4}\) of a grain. from 10 to 20 grains. 2 drams.

Mix .---

Mix .- and let it be repeated once in four hours, till it produces the effect required.

No. 23. CRYSTALS OF TARTAR WHEY.

Take Crystals of Tartar,

1-2 an ounce.

diffolve them in

1-2 a pint. g ounces.

Milk, . and add Manna.

24. Infusion of Tamarinds.

Take Tamarinds, boil them in Milk Whey, then add Manna,

I ounce. 8 ounces. 2 ounces.

Of each of these a tea-cupful, or more may be taken occasionally

25. DOMESTIC GLYSTER.

Take Milk,

Water,

Brown coarfe Sugar, Common Salt,

Linfeed, or Olive Oil,

of each 4 ounces.

1 1-2 onnce. 1-2 an ounce. 2 ounces.

Mix .-

26. COMMON GLYSTER.

Take the Glyster Decoction,

Epforn Salt, Syrup of Buckthorn,

Linfeed Oil.

8 ounces.

of each 1 ounce. 2 ounces.

Mix.-

27. CORDIAL SALINE DRAUGHT.

Take acetated Ammonia,

Peppermint Water, Ammonia prepared,

* Confection of Alkerms.

Syrup of Saffron,

I-2 an ounce.

I ounce. 5 grains.

zo grains.

2 drams.

Mix.

CORDIAL AROMATIC DRAUGHT.

Take Oil of Nutmegs;

4 drops.

rub them well with

Sugar,

2 feruples.

to which add gradually

Peppermint Water,

2 ounces.

* LEWIS's Dispensitory improved. Page 36;. Edinburgh, 1706.

No. 29.

No. 29. CORDIAL AROMATIC MIXTURE.

Take of Oil of Cinnamon,

40 drops.

Fine Sugar, rub these well together, then add

Cinnamon Water,

6 ounces.

Spirit of Cinnamon, 1 ounce.

Mix.—The Draught, or four spoonfuls of the Mixture, should be given as directed No. 15.

30. MUSTARD POULTICE.

Take Mustard Seed Powder, Crumbs of Bread,

of each equal parts.

Strong Vinegar, sufficient to form a poultice; but when wished to be stronger, half an ounce of bruised Garlick; and one ounce of black Soap added.

31. Musk Bolus.

Take Musk, rub them well with from 8 to 30 drops.

Fine Sugar,

40 grains.]

to which add

Ammonia prepared, Aromatic Confection, 5 grains.

10 grains.

Syrup of Saffron fufficient to form a bolus, to be adminiflered every four or five hours, with three table spoonfuls of the subsequent Insusion.

32. VALERIAN JULEP.

Take Valerian Root bruifed,

Boiling Water,

Infuse in an earthen vessel well closed, and let it stand till cold; to six ounces of which add Syrup of Saffron, half an ounce.

Mix.—

33. CAMPHORATED BOLUS.

Take Camphor,

of each 5 grains.

Ammonia prepared, Aromatic Confection,

20 grains.

Syrup of Saffron, sufficient to form a bolus, to be taken every fourth hour.

34. Musk Juler.

Take Musk Mixture, Camphor,

6 ounces.

Myrrh,

Myrrh, 20 grains.
Syrup of Saffron, 1-2 an ounce.

Let the Camphor and Myrrh be well rubbed together, and then add gradually the Musk mixture—Dose. Four table spoonfuls every three or four hours, or oftener in cases of great languor.

No. 35. Musk Bolus.

Take Musk, 10 grains.

Camphor,
Ammonia prepared,

Some of School of each 6 grains.

Syrup of Saffron, fufficient to form a bolus, to be taken every third or fourth hour.

36. SNAKE-ROOT BOLUS.

Take Snake-root powdered, 20 grains.

Ammonia prepared, 8 grains.

Syrup of Saffron, sufficient to form a bolus, to be taken every fix hours.

37. SNAKE-ROOT DRAUGHT.

Take Snake-root bruifed, 6 drams.

Boiling Water, 12 ounces.

Infuse in a close vessel till cold; to one ounce and a half of which

Ammonia prepared,

Aromatic Confection,

Syrup of Saffron,

2 drams.

Mix.—or from one to two drams of the Tincture of Snake-root may be added to any other of the cordial Draughts, and administered every fourth, fifth, or fixth hour.

38. IPECACUANHA EMETIC.

Take Ipecuanha in powder, from 15 to 20 grains.

Pennyroyal Water, 1 ounce.

Syrup of Sugar, 2 drams.

Mix.—

39. VINOUS INFUSION OF PERUVIAN BARK.

Take of Peruvian Bark,

Infuse it in White Wine,

Dose. Three spoonfuls every fourth or fifth hour.

40. CORDIAL MIXTURE, WITH BARK DECOCTION.

Take Peruvian Bark,

boil it in one pint of water till it is reduced to 12 ounces, then
let it be strained, and add

Tincture of Snake-root,

I ounce.

Gg 2

Aromatic

Aromatic Confection, 2 drams.

Mix.—Dose. Four table spoonfuls every fourth hour.

No. 41. CORDIAL MINTURE, WITH HOT OR COLD INFUSION OF BARK.

Take Peruvian Bark, 6 drams.

Infuse it in ten ounces of boiling water for four, in cold for eight hours, then let it be strained, and add

Tincture of Snake-root, z ounce. Compound Spirit of Lavender, 4 drams.

Mix.—Dose. The same as (40.)

or volatile substances may be added to any of these vehicles, as Salt, or Liquor of Hartshorn, Ammonia prepared. See Doses, P. 150.

If Bark should be disagreeable in every other form, it may be given in glysters, though in large proportion. Should the Powder, Tincture, or Extract, be more eligible, see the Doses, P. 193, 194.

42. ABSORBENT JULEP.

Take Crabs Claws prepared,

Gum Arabic powdered,

Cinnamon Water,

Syrup of Saffron,

Mix.—

4 drams.

or-43.

Take Chalk Mixture. 6 ounces.

Spirit of Nutmegs, Syrup of Orange Peel, of each 4 drams.

Mix.—Dose. Three spoonfuls of either often in the day, particularly after every loose stool.

44. DETERGENT GARGLES.

Take Infusion of Roses, 1 pint.

Honey of Roses, 2 ounces.

Mix.—

Take Lime Water,

Honey of Roses,

Mix.—

or—45.

4 ounces.

1½ ounce.

or—46.

Take Decoction of Barley, 10 ounces.

Honey of Roses, 2 ounces.

Muriatic Acid, 20 drops.

Mix.

or-47.

Take Decoction of Barley,

Simple Oxymel,

Tincture of Myrrh,

1 pint.

1 ounce.

Mix.-

No. 48. Antisertic Whey.

Take Cow's Milk,

Water,

Tilde pint.

Tilde pint.

Tilde pint.

Let these be boiled together, and mixed with one ounce and an half of Seville Orange, or Lemon Juice; or mix only one ounce of Lemon Juice, and two of good old Rhenish, and strain for use.

49. Antiseptic Drink.

Take Crystals of Tartar, 2 ounces.

Dissolve these in one gallon of Water, and sweeten with Syrup of Orange Peel.

50. ANTISEPTIC PURGING APOZEM.

Take Tamarinds,

Boil them in Water from nine to feven ounces, then strain, dissolve

Manna,

2 ounces,

· Tartarized Kali,

51. ANTISEPTIC APERIENT DRAUGHT.

1-2 ounce.

Take Tartarized Kali,

Manna picked,

Lemon Juice,

Distilled Water,

40 grains.

1 1-2 dram.

2 drams.

Mix.—Any of these may be taken, (No. 49 and 50. in proper doses,) and repeated agreeable to the effect wanted to be produced.

52. ANTIPUTRESCENT DRAUGHT.

Take Tincture of Roses, 2 ounces.

Muriated Acid, 5 drops.

Syrup of Quinces, 2 drams.

Mix.-

or-53.

Take decoction of Bark, 2 ounces.

Muriatic Acid, 5 drops.

Syrup of Quinces, 2 drams.

Mix.—

or-54.

Take Camphor, 6 grains.

Myrrh powdered, 10 grains.

Let these be rubbed well together, and add gradually

Decoc-

Decoction of Bark, 2 ounces.

Syrup of Lemon, 1-2 an ounce.

Mix.—Any of these may be taken every third or fourth hour, or oftener, if the exigencies of the case require.

No. 55. CAMPHORATED VINEGAR.

Take Camphor, 2 drams.

Let this be rubbed down with a few drops of Spirit of Wine, then add Sugar, 1 ounce.

Distilled Vinegar made hot, 2 pints.

Mix.—Dose. Two or three table spoonfuls, or more, every fourth or fixth hour.

56. ASTRINGENT POWDER.

Take Styptic Powder, of the Edinburgh from 8 to 15 grains.

Dispensatory,

Gum Tragacanth in powder, 15 grains. Nutmeg powdered, 3 grains.

Mix.—To be given every third or fourth hour, with the Draught No. 53, as ordered above.

57. IPECACUANHA DRAUGHT.

Take Cinnamon Water,

Gum Arabic,

Chalk prepared,

Ipecacuanha,

Syrup of White Poppy,

1 1-2 ounce.

2 fcruples.

2 grains.

2 grains.

Mix.-

58. SALINE VOLATILE DRAUGHT.

Take Water of acetated Ammonia,

Cinnamon Water,

Opiated Confection,

Syrup of Saffron,

2 drams.

Mix.—Either of these, or three or four table-spoonfuls of camphorated Vinegar, (No. 55.) may be administered every fourth hour.

59. SALINE FERMENTATIVE DRAUGHT.

Take Kali prepared, 20 grains.

Peppermint Water, 1 ounce.

Syrup of Quinces, 2 drams.

to which add

Lemon Juice,

and let the Draught be drank off whilst in a state of fermentation.

No. 60.

No. 60. POMEGRANATE BARK, AND CHAMOMILE DECOCTION.

Take Back of the Pomegranate Fruit, 1 ounce.

Chamomile Flowers. 1-2 an ounce.

Let these be boiled in

Water, 24 ounces to 16.

then in this Decection, whilst hot, infuse Orange-peel,

3 drams. This must stand in a vessel covered close till it is cold, then

trained off for use. To one ounce of this add

Camphorated Vinegar, 2 drams. Muriatic Acid, 5 drops.

Mix -And let it be given every fourth hour. 61. STEEL PILLS.

Take Iron filings, or the Rust prepared, } of each 1 dram, Extract of Gentian, Form these into 24 pills. Dose. Four.

or-62.

Take Vitriolated Iron.

of each 1 dram.

Extract of Bark, form 24 pills. Dose. Two. A dose of each of these may be aken, three or four times a day-or, one spoonful of Chalybeate N'ine-or the Decoction of Bark, in the same mode as before rescribed.

67. AROMATIC BITTER DRAUGHT.

Take Quassia Wood, 2 drams. nfuse in one pint of boiling water, and, when cold, to one ounce nd an half add

Vitriolated Iron, 4 grains. 30 drops. Aromatic Tincture,

lix .- and administer twice a day; as may be also the following bolus :

64. AROMATIC BITTER BOLUS.

Take Chamomile Powder, from 10 to 20 grains.

Myrrh in powder, 6 grains. Vitriolated Iron, 5 grains. Aromatic Powder, 6 grains.

Syrup of Saffron, fufficient to form a bolus. r, the Steel Pills. (No. 61, 62.) may be administered in the same nanner, with four spoonfuls of the following infusion:

No. 65. AROMATIC BITTER INFUSION.

Take Compound infusion of Gentian, 6 cunces.

Tincture

Tincture of Bark, 6 drams. Aromatic Confection, 1 1-2 dram.

Mix.

66. OIL OF CASTOR EMULSION.

Take Oil of Caster,

2 ounces.

Mucilage of Gum Arabic, or

Yolk of Egg, fufficient quantity to make it mix uni-

formly with Decoclion of Barley, 10 ounces.

Syrup of Roses, 1 ounce.

Mix.—Dose. Four table-spoonfuls every second or third hour, till the defired effect is obtained.

67. ANTIMONIAL APERIENT MIXTURE.

Take Diffilled Water, 6 ounces. in which diffolve

Manna, Tartarized Kali, Antimonial Wine, 40 drops.
Tincture of Senna, 1 ounce.

. 1 1-2 ounce.

3 drams. 40 drops.

Mix.-Dose. Four spoonfuls every second or third hour till the defired effect takes place.

68. ASA FOETIDA MIXTURE.

Take Asa sætida, Peppermint Water,

1 dram. 4 ounces.

Tincture of Opium, Syrup of Sugar,

12 drops. 3 drams.

Mix. Dose. One spoonful every fourth, fifth, or fixth hour.

69. CAMPHORATED EMULSION.

Take Camphor,

1-2 a dram. 2 drams.

Mucilage of Gum Arabic. Let them be rubbed together, and add gradually

Peppermint Water, 6 ounces.
Tincture of Opium, 10 drops. Syrup of White Poppy Heads, I ounce.

Mix. - Dose. Three or four spoonfuls every fourth hour.

Lee the forms of medium continued page § 5. MIXED FEVERS.

On treating on the different kinds of simple fevers, in the four former fections, we found, that according to their differences, we could discover which part of the system was in them particularly affected, and constituted the disease.

In

In the fimple continued, the valcular follem, with respect only to its motions being quickened.

In the inflummatory, belides the increase of motion, we perceive tenacity in the blood, and the Brength and activity of the

vessels augmented beyond what is natural.

In the flow nervous, the nerves feem to be primarily and chiefly affected, without any increase of vascular action, but rather a degree of torpor, and defect in their natural motion, with a lentor, or vifcility of the feram, lymph, and thin humours.

In the putril, this nervous affection was accompanied at first,

or foon after, with a putrescency of the fluids.

Now these peculiarities produce particular symptoms, which enable us to discover their, nature. But the class of fevers ranked under this head have some of the immediate causes of these fimple fevers fo blended together, as the inflammatory and maliznant, the malignant and nervous, the nervous and inflammatory -or to initantaneously and imperceptibly follow each other, according to the indications to be deduced from the fymptoms, that we are at a loss where to refer them-as the distinguishing figns of the two different kinds will prefent themselves at the fame time; for in some we find great nausea and extreme debility-great heat, with a quick, strong, and hard pulse-here are the characteristic fymptoms of the inflammatory and putrid united, and form truly the MIXED FEVER. We will, however, now endeavour to explain how these arise.

When speaking of the brain, (Page 26, 27.) it was there faid, that vascular irritability might be independent of nervous influence, though, for the continuance of that irritability, nervous influence is absolutely necessary. We must now farther observe, that vascular irritation always requires local stimulus for its support, and that the velicls may be affected without any strong indisposition of the nerves-and so on the contrary-and also that

they may be conjointly affected from the same cause.

We likewise farther affirm, that morbid particles creating difeale produce different effects, from their elective power upon the folids as well as fluids-hence from this fource arifes the different natures of specific fevers-and hence it is from the different combinations of the causes that the mixed severs deduce their

origin.

It feems to be an extremely difficult talk to draw our ideas of these severs into a small compass; or so to simplify them, that all which occur can be brought within the bounds of a concise definition; for every cause which can produce any of the foregoing febrile complaints; every part which can also be affected in them, may conjunctively appear fo in thefe; and in fuch vary Hh

differ-

different degrees, that we are puzzled to discriminate to which

they can properly belong.

I can by no means agree with the idea of Dr. Cullen, that the account he has given of the fever he terms Synochus, which obviously is his mixed fever, is at all adequate to comprehend the whole of those fevers, which come certainly under this term—for he says, "it is a contagious fever for the most part, com—"posed of the inflammatory sever at the beginning, in its pro—"gress, and towards its termination, running into a nervous or putrid fever,"—which he names typhus—In all which there is no practical utility; for it may be only an inflammatory fever simply, thus terminating; which often happens to be the case—induced frequently by the violence of the disease, some accidental circumstances, or mismanagement. The continued, or vasculo-plethoric fever, which is simple, may, from the same causes, have the same termination.

Though we will not fay that fevers of the above description may not sometimes occur, still we think that the complicated affections may always be in a great degree observed, and should

be particularly pointed out.

From what has been advanced on this subject, the great difficulty of forming a definition to comprehend the whole of these fevers which may often meet our observation, is sufficiently obvious.

However, in defining these fevers in general, I should say, that the

Anomalous, or mixed Fevers,

were an affection of the nervous and valcular fystem, and sometimes conjoined with that of the mass of circulating sluids, producing febrile appearances; but, from the beginning, very often so indistinctly marked, having the inflammatory, nervous, and putrid symptoms fo blended, that it is difficult to fay to what kind they most peculiarly belong; and if we add to this Dr. CULLEN's opinion, (Page 241.) the idea of mixed fevers will be tolerably complete; and as we have given the whole of the fymptoms separately under each of our former divisions, by confidering some of them here in a conjunctive state; and marking those which are most prevalent; we shall be enabled to point out what is necessary to be done-to alleviate that species which is the most powerful in its action, consequently the most dangerous, and not altogether neglect the other-but this to execute properly requires profound medical knowledge, quick perception, nice discrimination, and experienced fagacity.

SYDEN-

SIDENHAM, to whom I shall refer my reader, has given us some histories of these kinds of severs, under different names, either according to some prevalent symptom—as the sudatory, or sweating, the comatous or drowsy—or to the intent of nature, as the depuratory, or cleansing—the initative, as the various fever, or that similar to the small pox sever—or to the season, as the byemal, or wintery. We shall content ourselves with presenting, as a specimen,

The PUERPERAL, or CHILD-BED FEVER,

one of the most dangerous and fatal with which medicine is at

present acquainted.

DESCRIPTION. This fever generally begins on the first, second, or third day, sometimes later, after delivery, with coldness or shivering preceding any pains of the belly, which are violent, and has a foreness attending over the whole region below the stomach, scarce capable of hearing the gentless touch—the belly is sometimes soft—sometimes greatly swelled. The pains, though general, will affect some one part more particularly than another, and shoot from the loins to the groins and thighs, and sometimes affect the anus and neck of the bladder.

The pulse is quick and weak, though now and then, especially a little after the attack, strong and full—the skin is, for the most part, hot and dry, though sometimes cool and temperate; and, not unfrequently, intermediate sweats come on all over the body, and usually afford some alleviation—there is a constant pain of the head, chiefly the forehead, and above the eyebrows,

attended often with a giddiness and restlessness.

The tongue has very different appearances, commonly white, foft, and moist, and will thus continue till near death—then it becomes dry, rough, and of a yellowish brown colour—a red line will sometimes run up its middle, with a whiteness on each fide; the first is dry, the last moist—along with these there is also a

great thirst.

The face is often flushed, sometimes of a deep red, or livid colour fixed in the cheeks. There appears in the countenance and eyes strong marks of anxiety and dejection of spirits. From the very beginning of this distemper, the patients seem as a fraid of taking a full inspiration, hence is the breathing quick and short, appearing not to proceed from any affection of the lungs very often; and as the disease increases, so does the shortness of breathing.

There is most commonly a cough as a concomitant;—load of the stomach—nausea---and vomiting of yellow, greenish, or black materials, frequently attend; but not invariably, though they

Hh 2 fome

fometimes come on from the time of delivery, nay, now and then indeed precede it;---and, at the approach of death, what is

vomited up is either green or black.

If blood should be taken away, it is in general fizy, with a quantity of yellow serum. The pain of the head, though very troublesome, is seldom attended, till a few hours before death, with delirium.

The urine at first is made with difficulty, and small in quantity, though removed by two or three stools; and, as the discase abates, it is declared by a deposition of the colour of brick dust, or whitish sediment.

At the commencement the habit is, for the most part, coffive—fometimes regular—at others loose, discharging very sected and brown coloured seces—and in both states flatulence attende—and the general omens of approaching dissolution are, involuntarily evacuations from the bowels.

In high degrees of this discale, the patient, for the most part, lies on her back, feldem turns on either fide, and never on her

belly.

These are the general symptoms, by which the fever may be discovered, and which appear when the uterus is not affected—but if we perceive any of the symptoms which are declaratory of uterine inflammation, we may suspect the affection of that organ a participating cause.

CAUSES. Those which are considered as the remote or in-

ducing, are,

Intemperance during pregnancy—too great fatigue, or total want of exercise—too high or too low living—costiveness, or the reverse—excess of joy or grief—moist and warm atmosphere, impregnated with putrid essaying. In lying in, an overheated air—too warm a regimen—sudden fright—costiveness after delivery—and every accident which can outstruct perspiration—volence, and too great haste in separating the placenta—and binding up the trunk of the body with too tight bandages.

Those which are said to be the proximate or immediate, are,

Impeded circulation, or flagnation of the blood, generally in the veilels of the omentum, (37.) and intestines, chiefly the external coat of the in all ones, (42.) tometimes of the womb, (51.) inducing in those parts inflammation, from the debilitated state of the vascular system there fituated, brought on by the pressure of the pregnant womb; if causes (243.) occur which are capable of producing sebrile affections in the habit---which affections are first most commonly of the inflammatory; afterwards, if the fever in this state is not cured, of the putrescent kind.

CHARACTERISTIC SIGNS. Common febrile fymptoms, attended

attended with violent acute pains of the belly below the stomach, with foreness of the parts so great as scarce to bear the gentlest touch --dread in taking a full infpiration--breathing quick and short, nor appearing to proceed from affections of the lungs -- and increating with the disease---and in cottiveness, or the reverse, flatulence.

CURE. The indications are to take off in the first instance, the inflammation, and prevent the humours from running into a state of putrescent acrimony --- both which are effected by bleeding, if necessary, at the onlet---purging---promoting the urinary discharge--or sweating--for in some of these ways this fever generally goes off, or is conquered, particularly by purging. If the termination is favourable, it occurs in three, four, or five days; if otherwise, from the fifth to the twelfth.

Hence, therefore, from what has been above delivered, our

medical conduct is plainly pointed out.

If, at an early period of the dileate, the habit is found abounding with blood, the febrile heat great, and the pulse full and ftrong, blood must be immediately drawn from the arm; and, should the body be coffive, an emollient aperient glyster, (No. 25, 20.) thould be, as foon as possible, administered; but should not this relieve by producing evacuation, some mild or emollient aperient medicine (Page 171, 172.) must be given, till a free discharge from the bowels is procured -- for stools must at all events be had; on these, at first, are founded our greatest hopes of succefs; as by emptying the first passages, all distension from the contained fæces is taken off-flatulence leffened-irritation from the fæces avoided - and fome degree of freedom given to the circulating powers of the parts affected.

But this should be done by the gentlest means -- by such medicines as will not create fickness, as the cooling faline purge,

(No. 3, 23, 24.) or oil of caltor emulion. (No. 66.)

Tartarized antimony, (No. 6, 7.) or antimonial wine in small dofes, (Page 180.) are recommended to be given with this intent every fecond or third hour; but in their purgative effects, they are too uncertain -- I therefore mix small portions of them with other purgatives, which I think quicken, their effects. (No. 3. 22 to 24.) or the antimonial aperient mixture. No. 67.)

The first evacuations are generally fatid; but if they become afterwards less offenive, and the patient feels herself generally relieved, she most commonly falls into a sleep, and a gentle perspiration succeeds, which must be incouraged by such medicines as cool at the same time that they contribute to promote this purpole, fuch as tartarized antimony, antimonial powder, No. 6, 7, 8, 9.) and wine, (Page 180.) iperacuanha, (No. 57.) nitre, (No. 2,) taline mixture, (No. 1.) to which may be added some slight

opiate,

opiate, (Page 152.)---for these alleviate pain--- determine the string externally---and prevent their effects from internal distenstring from local solicitude of them internally, and accumulation; besides, they are diuretic, (Page 173.) and antiseptic, (Page 192.) without astringency, or

being productive of heat.

Though, in order to keep up these effects, so essentially necesfary for recovery, physicians in general have ordered mild cooling liquids to be drank cold, if the thin was dry and hot, the fever and thirst confiderable --- and lukewarm, whilst the patient was in a flate of perfuiration; and very judiciously forbid the use of cordial stimulants, caudles, wines, and heating medicines of every kind :---yet fome preferibe a cup of chamomile tea to be drank. every hour; but as this, like other bitters, is a stimulant, in the inhammatory stage of this disease it does not appear proper. But when fymptoms of putrefeency are approaching, or commenced, it may be productive of good effects, as it posselles antiteptic (Page 192.) powers. Small and repeated dofes of lukewarm diluents, or watery liquids, as rennet, vinegar whey, lemonade, toast and water, slight intulion of malt, hydromel of Hippocrates, (Page 178.) or things of a fimilar nature, answer the purpoles more fately, and full as effectually.

Though the greatest benefit is expected to be derived from clearing the first passages, attention should also be paid to the flomach ;--- and hence, if naufea, fickness, or vomiting, be one of the concomitant fymptoms, that organ must be attended to, and unloaded of its contents; which will contribute also to promore the effects before mentioned; but as the womb is fufpended by the broad ligaments, ((1)) and those called round, (which are formed of a number of blood-ventils tolded together, running from the corners of the womb in the duplicature of the broad ligaments, pass through a round aperture on each fide the lower part of the belly, and are loft in the fat of each groin) vomiting thould be promoted by the callest means, by drinking copioutly of chamomile tea, or warm water-ior by filling the ftomuch fufficiently with fluid, its coats will act with eafe, and the disphragm (23.) and mutcles of the belly not be thrown into continued and too powerful contraction, which would at this period be dangerous; because the ligaments are now in a relaxed state, and have not yet recovered their natural and healthful tone; hence would the womb be liable to be protruded too much downwards by strong exertions of vomiting.

The case here drawn up respects only the most simple appearances of this sever; but it is frequently observed to be attended

with feveral untoward circumstances.

1A. VIOLENT STITCHES IN THE SIDE, and PAIN AT THE IT OF THE STOMACH will accompany those more constant ones if the belly, with a full, hard pulse, symptoms of inflammaton, and that severe in proportion to the degree of violence.

2d. FLATULENCES in the flomach and colon (43.) will prouce pains in the fides, shooting about the front ribs, which ustuate; and occasion shortness of breathing, being only attendd with a flight degree of fever.

3d. A cough not unfrequently is an attendant fymptom-but

eldom of much consequence.

4th. A LOOSENESS will fometimes appear at the very comneucement of the fever, ariting from aerimonious foulness in the

rst passages.

These we must endeavour to alleviate by well-adapted applications. Under the sirst circumstances bleeding must be had recourse to, and that repeatedly, if the violence of the symptoms ontinues, paying proper attention to the strength of the patient; aking care not to be too layish in the quantity of blood drawn; or it is faser to bleed twice than once too copiously. Should be pains be violent, and the breathing much opposited, blisters bust be applied immediately, and repeated in proportion to the ause, first on the side affected, afterwards on the opposite de.

But should the pulse grow weak, and other symptoms of debiity come on, declaratory of putrescency taking place, cordials with tonics, the most powerful of which are, volatiles united with bark—camphor—spirit of vitriolic or nitrous athermust e brought to our aid and mineral acids. See Putrid Fever, 121, § 4. from whence we shall be referred to a variety of precriptions capable of answering our purposes.

And here we must observe, that the seneka root, (Page 179.) as been highly recommended in this, as well as other pleuritic sections; and is in this place considered as exceedingly applica-

le, as it is faid to promote flools, urine, and fweat.

Under the fecond, we must apply to aperients, 'No. 3. 23 or 4. 66, 67.) if these fail of success, by their operations, antispathodics and selatives may be tiled, chiefly at a feetida, cambor, (No. 68, 69.) or musk, (No. 31. 31, 35.) with opium.

Under the third, in flight cases, oily emulfions may be admiiftered, as in control coughs; but should there be at the same ime a severe pain in the head, a blister would be applied between he shoulders—steams of vinegar and water inhald into the lungs—gentle opiates, (152.) or spirit of vitriolic ather, (150.) admiiftered.

Under the fourth, we are not to attempt to check the discharge

by the use of astringents; for from this every good is to be expected—we must here rather chuse to assist nature by the free use of those drinks we have in common recommended; -but should it not come on till the ciose of the disease, and be apparently critical, we must endeavour to support the patient under it, and aim at correcting the putrescent state of the habit, by antiseptics and cordials, both in glysters and by the mouth, and pro-The glyfters should be emollient, diluting, per nourishment. and nutritious, composed of broths, beef-tea, chamomile infufien, with oil, and impregnated with fixable air ;-wine, wine and water," may be given-alfo cordial mixtures with cinnamon, (No. 13, 14, 15, 18, 28, 29.) omitting the volatile substances. except in cases of faintness, when they may be occasionally added-the aromatic confection may be also changed for the extract of logwood, or the infusion may form the vehicle, (140.)—and after the diarrhoea has been checked by proper remedies, we must not forget the bark joined with aromatics, (No. 39 to 41.) and opiates. Besides, beef-tea, chocolate, hartshorn jelly, and fuch like, should be given by the way of nourishment-lime-water with milk; and, in fine, all fuch things as have the power of correcting putrefeency, and preferving as much as poslible the vigour of the constitution-hence rest of body, quietude of mind, cleanliness, and cool air, are essentially auxiliaries, and should be attended to with the greatest exactitude: and as lying-in women all have a greater or less degree of the predisposing cause in their habits, from the very nature, and unavoidable confequences of pregnancy, arifing from the diffention of the womb, producing impeded circulation, and vascular debility, the remote or inducing causes (244.) should be avoided—and from thence the accession of the fever prevented: and as there is no disease, when perfectly formed, more dangerous in itself, so difficult to cure, Hill so easy to be produced by indiscretion and ignorance, I would on every confideration recommend the preventive mode to be closely studied, and assiduously pursued.

We have now gone through that feries of fevers, of the four first of which, all, either in their separate or conjunct state, whatever they be denominated, confist; and it clearly appears, that the parts of the constitution which are affected, are those which form the moving powers. (56.) and that it is by the morbid alteration of their action alone that severs are produced; consequently, that it is from regulating their motions, and reducing them to a proper standard, that we can derive benefit in our curative,

as well as preventive attempts; for instance:

IN THE SIMPLE CONTINUED FEVER we find a superabundance of blood, and irritable state of the vascular system put into mo-

tion by some remote cause, occasioning increase of action—in or. der to cure, we lessen the former, and decrease the latter—for here we suppose not any contamination of the circulating sluids to have taken place.

IN THE INFLAMMATORY FEVER we find to the superabundance of blood is added a morbid tenacity, and to the irritability a morbid augmentation of vascular strength and simmes—in order to cure, our efforts are the same as in the former case, only more powerfully, copiously, and quickly exerted, with intent to thin the sluids, and debilitate the force of vascular action, as well as lessen the quantity of blood, and decrease the quickness of vascular motion.

IN THE NERVOUS we find a different constitutional state of the moving powers—a torpor of the vascular system—ropy vicidity of the serous or lymphatic sluids—with a morbid activity of the nervous system—in order to cure, we endeavour to rouse the nerves to the performance of their due action, and increase the

irritability of the fanguinary vessels through the habit.

IN THE PUTRID we find, added to one or other of the states of the vascular or nervous system, a putrescent state of the sluids, either from the absorption of putrid particles, or the generation of them in the habit—in order to cure, we attempt to support the vigour of the system, and correct the putrescent acrimony of the sluids, according to the assection of the moving powers—if of the instammatory kind, by mitigating their too violent action—if of the nervous, by rousing their active powers, so that in due time the offensive matter may be separated from, and thrown out of the mass of sluids, by some of the outlets of the machine; which is the case in all other severs that deduce their origin from any peccant matter in the habit.

And we may venture to affert, that any practitioner who closely studies, and perfectly understands the nature andmanagement of the four kinds of severs specified above, will be sully competent to conduct his patient, in the best manner, through every kind of sever, be its nature ever so apparently complicated.

But, besides the severs we have particularized, there are others, denominated according to their form or mode of progress REMITTENT or INTERMITTENT, though they really are of the nature of those of which we have before treated, either in their separate or conjunct state; and which we must now proceed to explain.

SECTION IX.

CHAP. I.

REMITTENT FEVER.

EVERS of this kind receive their name from the mode which they preserve through their progress, steering betwixt those of the continued and the intermittent class; for though the sever does not preserve throughout an equal degree of violence as in the former, there is never a total cessation of sebrile assection before its termination, as in the latter. These severs, therefore, move betwixt the two extremes; having, instead of fresh accessions, as they are called in intermittents, only repeated increase of action, denominated exacerbations; between which a degree of vascular contraction and prostration of strength are continued, indicative of the presence of the sebrile cause still in action; and from hence they take their name.

But, indeed, the remissions are fometimes so slight, that they are with distinctly distinguished by the closest attention from continued severs—though this discrimination is highly necessary, as they yield more in their mode of cure to that we shall find employed in intermittents, being subdued with more certainty by the bark, judicions administered, than by any other application. Indeed, they seem to have so great assinity with the continued and intermittent sever, that they sometimes run into one, sometimes into the other—and the continued, before it becomes intermittent perseasy, will assume the remittent type, so will the

intermittent before it changes into a continued.

From some appearances occurring in the course of these servers, they have been divided into quotidian—tertian—or quartan—according as the remission has happened on the second, third, or fourth day; but in this division there appears to be no practical utility—as it leads not to any particular mode of cure, not assists in distinguishing the nature of them, whether they verge most to the inslammatory class, which knowledge alone must cetermine our operations.

DESCRIPTION. They, like other fevers, generally begin with alternate chills and heat, firetching and yawning; and there are fucceeded by naufea, vomiting of bile, giddiness, and oppression—then commences the fever, and the heat continues; after these follow pain of the head, back, and limbs—heart-burn—

and thirst—difficult breathing—anxiety—inquietude—and, fometimes from the first attack, delirium—the stomach swells now and then—the eyes are generally tinged with a yellow colour, and that diffisfed over the whole body not unfrequently—the tongue is white and moist—the pulse sometimes hard, seldom full—the bowels are at one time obstructed, at another the reverse.

Thus fituated are fome periods betwixt the fecond and eighth day; which time a remission very rarely exceeds; for the most part a gentle sweat will come on, and brings an alleviation of all the febrile symptoms; and this continues for some hours; after which, generally in the evening, the violence of the sever is renewed, sometimes preceded by chillness, sometimes not.

This repetition hath no fixed time for its continuance, in some remaining a longer, in others a shorter space; but at last gives way in its degree of violence, and remits a second time; and thus continues sluctuating till either totally subdued by nature or

art-or death closes the scene.

When this last is the case, the patient often dies in the paroxysim, or renewal of the attack—the brain is immediately affected—he loses his fenses, and the power of speech—his breathing becomes quick—deglutition is impeded—a looseness comes on—the pulse in the beginning soft, not to be called weak, nor indicative of danger, in a few hours is small and depressed, then cold

fweats break out, and the unhappy victim expires.

There fevers have, by fome, been stiled bilious, from the vomiting of bile, so common in their commencement, and the yellow susself from the skin and whites of the eyes; supposing there symptoms to arise from the superabundance of bilious excretion, and the activity of the bile reserbed into the habit, occasioning such febrile commotions—But it is obvious this change of colour is owing to another cause, and that, the breaking down of the texture of the blood from the putrescent tendency of the sluids; and thus may the colour more properly be accounted for; because the bile may be returned into the blood, as in the jaundice, without producing their febrile attacks.

In hot countries that are marshy, where the atmosphere is filled from thence with putrid exhatations, they are endemial, that is, nalive and resident—with us, and other parts of Europe, they have been observed to become epidemical, that is, occasionally ge-

neral, towards the latter end of autumn.

CAUSES. The remote or inducing are faid by fome, as well as the proximate, to be fuch as bring on a continued, or inflammatory, or a putrid fever, (20), 221.) whilst others attribute the first to too great moisture in the air, the last to insensible perspinit is 2

ration impeded, and a relaxed state of sibres. However, from the history of these severs, it is obvious, that they, at different periods, and in different constitutions, put on appearances which are very different, and according to which we are to regulate our

conduct. Hence we fay, the

CHARACTERISTIC SIGNS are, a remission or abatement, not a total cessation of febrile assections, succeeded by perceptible exacerbations, or increase of sebrile violence; which increase is fometimes whered in with chillness;—and if there are strong symptoms of vascular contraction, and great increase of circulatory motion, which are declared by extreme heat—thirst—and pain—having a dry skin, strong, hard, and full pulse, for their associates, we shall not helitate to pronounce it INFLAMMATORY;—but if attended with great debility—lowness of spirits—nausea—oppression—vomiting—coupled with discolouration of the skin, and languid pulse, its belonging to the putrid class is indisputable.

This fever is never free from danger; though the nearer it approaches to an intermittent, or the lefs degree of fever continues during the remission, so much more favourable the omen; but, on the contrary, the more it puts on the appearance of a continued fever, the shorter the remission, and more violent the fever fit, so much the more dangerous. If the urine, which was before of a deep colour, becomes pale, we have great reason for fear—If it changes its remittent for a continued type, the event is doubtful—and when the brain is affected, and the rest of the symptoms, as described (Page 251, line 19, &c.) death is near at hand.

cURE. The indications are fimilar to what we have delivered on the inflammatory (209) and putrid (221) fevers, adapted to peculiar states agreeing with them, by which this fever may be changed into an intermittent, or totally taken off—confequently, where the inflammatory symptoms are prevalent, bleeding, cooling purges and glysters—vomits—and small doses of antimonials—watery diluting liquids drank plentifully—cooling accelent vegetables—will be the most eligible at the commencement, and will so far answer the purpose in some cases, that nature afterwards may be almost left to herself.

Still, in others, the requires the most immediate and powerful a Millance—hence it is necessary to point out the different progressive appearances, by which may be discovered the situation of fasety, or danger, and the mode of proper management under each, as, from imprudent conduct, this sever, from its mildest state may be converted into that of extreme peril, and from this

last into certain death.

If, therefore, the increase of the sebrile assections, a third time, should not be more violent, nor of longer continuance than that which preceded, but nearly similar—if the urine should let sall a laudable sediment, without any visible decrease of strength, or increased dejection of spirits, matters will wear a savourable aspect; and about the fourth or sisth return of the sever, the powers of the constitution will commonly relieve themselves by some critical evacuation, either by the KIDNEYS, SKIN, INTESTINES, SALIVARY SYSTEM, or LUNGS, manifested in turpid urine, profuse sweat, bilious stools, copious spitting, or expectoration of matter of a yellow cast—for the sever generally resolves itself in one or

more of these ways.

But, on the fitth return, should there appear to be an increase in degrees of feverity, in the fymptoms becoming more acute and dangerous-if the fit continues longer, and is more violent than before, and there are obviously a finking and lowness of fpirits, with great debility of the powers of the fystem, we must have recourie to blifters, which fome indeed advise at an earlier period, as calculated in a remarkable manner to bring on the intermittent type-and bark as foon as possible in the remission; forty or fixty grains of the powder may be administered every fecond or third hour-or, if the stomach will not bear this quantity, a smaller dose be given at shorter periods, or the decoction. (193.) hot or cold infulion, (No. 41.) with or without the volatiles or aromatics, as feem necessary; to which also may be occasionally added, the other preparations of this medicine, (193, 194.) by these means many endeavour to flop, or at least retaid the progress of the next febrile fit, by throwing into the habit a fufficient quantity-and thus must we proceed till we shall be empowered within twelve or fourteen hours to administer fix or eight drams.

If we are not active at this period, and attempt not with all our power to mitigate or conquer the febrile affections, we run the rifque of protracting the discase, and rendering it more replete with danger; for now the sits become so quick, and sollowing each other so rapidly, that we are deprived of the opportunity of throwing in the bark in proper quantity, and permit-

ting a continued fever to be the confequence.

But though bark in some states of this sever is so extremely useful, still, in every stage it is not necessary—nay, indeed, in the instammatory remittents (251.) it is dangerous to administer it, whilst the action of the vessels are too powerful; for from this we might produce the instammatory continued sever; therefore we must endeavour to lower the system, by those means advised,

(252, line 33.)—that done, the bark may then be advantageously thrown in.

Before we close the account of this fever, we must observe, that though bleeding, and that repeatedly, has been advited in fome of these severs, and with confiderable advantage; yet under some circumstances there requires the nicest caution, with respect to the quantity to be taken away, notwithstanding the commencement being usered in with fuch symptoms, as might authorife the operation; for bleeding has been allowed to do mischief, especially in hot countries, for there these severs are generally of the putrid kind-therefore in our first bleedings the quantity should be moderate, seldom exceeding eight ounceswhich may be repeated in case the inflammatory symptoms continue violent-but should these only be slight at first, and evacuations are necessary to be promoted, we can only depend upon the gentlest cathartics, fuch as oil of callor, manna, tartarized kali, Polychrest falt, and tartarized antimony-(See Cathartics, Simple continued, and Inhammatory fevers, where different formulæ will be found) and also the saline mixture-which last often repeated, is fail to be the most certain alleviator of the violent naufea and vomiting, which generally attend these casesor it may be given in its flate of fermentation, (No. 59.) and is greatly affiftant in correcting the putrid disposition, and those toulnesses which are collected in the stomach and slexure of the duodenum-(42.) afterwards the bark must be freely applied. By these means thousands have been saved; and if they are begun with before the strength of the patient is exhausted, and will properly purfue the advice given, feldom any sie of this diteafe.

However in the West Indies in this sever there is something very singular, for it has been observed, that if the bark was not given on the sirst remission, it was apt to run into the continued

species.

There are innumerable varieties of these severs mentioned by authors, who have given them different names, according to some peculiar circumstances which attended—but all yield to the mode of treatment here pointed out—only in some paying particular attention to any uncommon symptom which occurred—two of which we shall point out.

BILIOUS REMITTENT FEVER.

This attacks generally in the middle of August, and is attended, besides the common symptoms, with violent pain of the head, and often with delirium, which symptoms continue in the night, vanish in the day-time, after sweating, a hæmorshage or loofe-

neis. In the beginning there is frequent naulea, bilious putrid

vomiting, and in the end oppression.

In extreme cold weather, and at the approach of winter, a cough, rheumatic affections, and tenacity of the blood, accompanies these severs—but it is from the bilious parging and vomiting that it derives its name. If evacuations are not directed, a continued sever with yellowness comes on. The cure is performed by vomits catharties, acids, and bark; but we must first persist in the use of evacuants before we give the bark, and then it is admirably conducive to promote the cure. This remittent is esteemed of the inflammatory class.

The other we shall mention is of the putrid class.

MARSH REMITTENT FEVER.

This is the bilious, or putrid fever of the low marshy countries

described by Sir John Pringle.

This lever not only happens in moift, but also in warm countries, according to the season, as they come on in the months of July and August, from putrid vapours arising from corrupted plants or fish.

This bears bleeding very indifferently, and should rather be treated in the evacuating and strengthening method; at the beginning cleaning the first passages with gentle emetics and cathartics, and continuing small doies of antimonials—which not succeeding to our wish, bark must be called in to our aid to perform the cure.

In order to prevent the attacks of the remittent fevers, as they are chiefly the children of moist seasons, and low marshy countries, we should keep good fires, with intent to correct the atmospheric humidity—make use of aromatics—avoid the evening and morning air—drink red wine—use exercise and the cold bath—take bark once or twice a day, mixed with bitters—and smook tobacco—for people who have observed these rules have, many of them, escaped in countries where this sever has raged epidemically, and afflicted numbers who have despised these caucions.

SECTION X.

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INTERMITTENT FEVER.

THESE fevers receive their name from the nature of their progress, having a perfect cellation of febrile affections from

the termination of one fit to the beginning of another, and may be confidered as continued fevers of flort duration, confiding of many tebrile fits, the fever returning at flated periods; for in every fit the course of a continued fever is run through—the coldness and shivering is the beginning—the hot sit the height—and the sweating generally attendant, or at least a gentle perspiration the critis or termination. What happens in these dif-

ferent stages is thus properly described:

DESCRIPTION. IN THE FIRST STAGE it begins with yawning and stretching, and a certain indescribable sensation in the back and the ends of the singers; after these succeeds excelsive coldness, infomuch, that it occasions violent shaking of the whole body, and chattering of the teeth; still, in fact, the blood is in a state of increased, rather than diminished heat—there are also nausea, and sometimes vomiting attendant, with pains of the back, head, and limbs—the ends of the nose, ears, lips, and cheeks grow pale—the nails livid—the breathing is difficult—the urine pale and limpid—the pulse weak, and extremely quick—and this cold sit continues for one, two, three, sour, or sive hours sometimes, at others only half an hour before the hot sit commences—which forms the

SECOND STAGE, in which there is extreme degree of heat immediately fucceeding the cold, which goes off gradually: in this the pulle becomes full, quick, and strong—the head is painful—and sometimes the patients are delirious—their breathing is forcible and free—the tongue white, attended with great thirst—at the pit of the stomach they complain of much heat, have pain there, and sometimes swelling—the urine is high coloured—and when blood is taken from the arm it is more dense than usual, particularly in spring—sometimes in unwholesome situations and seasons the superior part is red, the inferior black, with a small portion of ferum, and that less cohesive than when in health. At the-commencement of the

THERD STAGE there breaks out a general and copious fweat, which alleviates the extreme heat, and mitigates all the fymptoms, which, on the fweat continuing for fome hours, totally vanishes—the urine deposits a fediment like brick-dust—the patient falls into a found sleep—and thus the fit closes with a cessation of all the sebrile symptoms; and this, called the intermission, in which the patient feels some degree of debility, has much properlity to sweat, and little or no appetite.

It has been thought that we could prognoficate the violence of the hot, by the degrees of the duration of the cold fit, for the longer the latter continued, the more fevere would be the former-but this is erroneous, for the sensation of cold grows weak-

er in long continued intermittents.

In some countries these severs are peculiar, as the sens of Cambridgeshire, Lincolnshire, the low parts of Kent, the marshes of Essex, and in places where there is much moisture, and the situation low; and here they generally appear in spring or autumn. They seldom visit other places, except in seasons adapted to their propagation, and then they become epidemic.

They have been divided into vernal and autumnal, endemical and epidemical, and into quotidian, where from the termination of one fit to the beginning of another the space of 24 hours is consumed—tertian, where that of 48—quartan, where of 72—and when longer, erratic. They have also been divided farther; but they seem to be of no practical use, as the modes of

cure in all are very fimilar.

CAUSES. The remote or inducing are, immoderate evacuations—cold moist atmosphere—irregular or improper diet of crude watery vegetables—lowness of spirits—crudities in the first passages—and, in sine, every thing which contributes to produce a relaxed state of the solids, and poverty of the blood.

The proximate or immediate, effluvia from moist, marshy places called marsh miasma—impeded perspiration, and relaxation of the folids.

Hence are the poor more subject to this disease than the rich and affluent, those who inhabit the country more than those who live in large towns and populous cities; for generous diet and warmth are preservatives against the disease as well by purify-

ing the air, as invigorating the habit.

CHARACTERISTIC SIGNS. Affections of both the nervous and vascular systems, from marsh effluvia running through the course of a continued sever, of short duration, beginning with cold and shivering, succeeded by great heat, and terminating, for the most part, in profuse sweats, in one sit, which leaves the habit perfectly free from sever for some time, and returns at stated periods.

CURE. The indications are, to prevent the return of the febrile affections, by taking off the too great incitability of the nervous, and irritability of the vascular system, by giving tone or thrength to the nerves and vessels, and rendering them incapable of seeling the effect of morbid particles in the habits, called marsh miasmata, and ejecting them out of the constitu-

tion.

But at the commencement of fevers we cannot immediately discover of what particular nature they are, and one the least K k

dangerous may be converted into others which are more hazardous, by injudicious treatment, as an intermittent into a remittent, and this into a continued; we should at the first onset be careful, till we are convinced of its specific nature; therefore to general means we should only have recourse, which may in all tevers be proper, be they of what fort they may, and this will depend on placing the constitution under such circumstances as approach nearer to a state of health.

Therefore, in the beginning, if the pulse give evident figns of fullness, with other concomitant symptoms, which indicate evacuations to be proper, as we have before specified in the remittent and other severs, blood may be taken from the arm. Should there be nausea or sickness, indicative of soulness of the stomach, an emetic, (No. 11, 12. 33.) should be administered, and the bowels cleared by some gentle aperient medicine. (No. 2. 22 to

24.)

Where these are thought necessary, bleeding and cathartics should precede the administration of the emetic, that no mischief may arise from its operation, which might be the case, should there be any local congestion, or too great general fullness, by rupturing, or distending the vessels too much, or pushing the bleed too powerfully into the small capillary tubes, particularly of the head.

If these prove insufficient, we must preceed to the use of antimonials in small doses, united with the saline mixture, or alone, (No. 6 to 9.) as has been before directed—and, as soon as the sever shews what it is, take such sheps as its nature demands—if an intermittent, the most powerful medicine, with which observation and experience has surnished us, is the Peruvian bark, (193, 194.)—the quantity given should be generally so much in the interval between the first as will prevent their return, that is, in adults, from six to eight drams.

The most efficacious mode of administration that has been re-

commended, is in powder mixed with red wine.

Where the intermission is short, it is given at shorter intervals and vice versa. I always consider what is most agreeable to the patient respecting the form, and give a dose every one, two, three, or sour hours, as occasion requires—the nearer the approach of the usual time of accession, the quicker it should be repeated, in order that it may at that time exert its sullest action with its greatest power.

Should the febrile fits be by these means conquered, we must not totally desirt from its use, but for a sew days repeat it at proper intervals, every fifth or fixth hour; then for a week, twice in the twenty-four hours; afterwards, once for the fame, fpace,

In winter, after desisting for a week, or ten days, it will be prudent to return to it again occasionally for two or three days, and so persist for a sew times, which will effectually secure the patient from a relapse. Add to this, the patient should avoid exposing himself to the remote or inducing causes, (257.) use gentle exercise, particularly riding. Light nutritious diet. animal sood. The port, claret, or any generous wine, in proper quantities. Such as are easily digested, will serve to strengthen the solids, and promote a free and regular circulation.

Large draughts of any kind of liquids, however thirsty the patient may be, should not be allowed in the cold fit, as they will load the stomach too much, and increase internal oppression and uncasiness; but in the hot fit, watery sluids, such as sage, rosemary, balm-tea, small white-wine whey, and such like, may

be liberally administered.

The forms in which the bark is administered, are either in bolus, pills, electuary, decoction, insufin with cold or hot water, simple powder, tincture, or extract. (See the doies, 193, 194.)

When we want to throw in as much as possible in a given time, (see No. 70.) and let it be administered every second, third, or fourth hour, according to the times of the sebrile accessions.

(258.)

Where bark has difagreed, equal portions of quasila wood and snake-root, insufed in boiling water, or oak bark in powder, or extract alone, joined with alum, or chamomile slowers, have been esticacious, given during the intermissions every three or four hours, (No. 71, 72.)---the virtues also of cupulæ, or scaly cup, which embraces the bottom of the acorn, are similar, in a consi-

derable degree, to the oak bark.

The method above laid down will generally be successful in the quotidian and tertian intermittents, (2,57.) particularly if we couple such medicines along with the bark as the nature of the constitution of the patient, and the apparent sebrile symptoms indicate, viz. if the habit appears robust, the pulte, in the sebrile sit, full, hard, and quick, with other instammatory symptoms, bleeding has been greatly beneficial; and in these cases, joining the bark with saline substances, as tartarized kali neutralized with lemon juice, (No. 1.) and the decoction of bark, or fixed sal ammoniac, (176.)---if contrary appearances, cordials and volatiles have supplied their places, as volatile salt of hartshorn, (150.) tincture of snake-root. (179.)

Notwithstanding which, they will sometimes prove very obflinate---in these cases vomits (No. 11, 12. 38.) given a small space of time before the return of the sit, and antimonials in small doses, (230.) pursued through the course of the hot sit, have been found beneficial---or, where the habit has been in a highly irritable state, opium, (152.) administered before the sit, or in the hot stage, seemed of use.

It is only though in the quartan (257.) intermittent that they are often required, feldom in the others preceding, notwithstanding the hot and cold fits continue a shorter time than the two for-

mer, the whole fit feldom lafting above five hours.

Bark feldom fails of completing a cure, if judiciously adminiflered, and the concomitant circumstances which sometimes appear, are properly attended to—when it does, the failure is owing to some of the following particulars—either it has been given in too small doses—not perasted in long enough—given in an improper form—or such medicines may not have been added to it, nor such a regimen observed, as the peculiar nature of the case required.

Sometimes the bark has a tendency to pass off through the bowels, then it is necessary to add a few drops of tineture of opium to each dose, which will prevent that effect---at others the habit will be too costive, eight or ten grains of the barb may be given soon after the cossation of the fit, to obviate that reconvenience---sometimes the stomach will not bear it, it may then be administered in form of girster, (No. 73.)

It is formatimes extremely difficult, and very often impossible, to get children to take a sufficient quantity of this medicine to answer the desired surpose—for the best form to which they will

adhere the longest, (See No. 74.)

But they have been cured by baths, in which half their body has been immersed, of bark decodion, rubbing the spine with equal parts of soap liniment and tincture of optum---or wearing a warscoat made of callico doubled, within which bark has been

quilted. The secretary of the company of the tree to

With respect to our prognostics in this disease, when eruptions appear upon the lips, they afford a good omen; and the more regularly the sever passes through its stages, so much the better. Epidemic severs of this kind are worse than those which occur accidentally to a few--quartans than quotidians or tertians--autumnal, than vernal--Inflammation of the tonsils is considered as mortal--sometimes it carries off those who are very insim in the first stage--they frequently leave the constitution extremely weak, so that it requires a long time for the re-cstablishment of persect health; which must be affisted by proper regimen, and

exera

exercise, as has before been specified, after the termination of other levere fevers ... fometimes they terminate in punitice, confamptions, and dropfies, which, if they artie from hirrhofities, or

hard irrefoluble sumours of the vifcera, are fatal.

But, notwithstanding what may be thought, with respect to the necessary of an early cure, it is not always proper to take off this fever immediately-for by their continuance, they have been known to care epileply, fevere coughs from affections of the liver; and hypochondriac and gouty affections have disappeared, by this fever bringing about, from its continuance, some salutary conflitutional changes-the bleeding piles, finall-pox, and other acute fevers, as well as strong mental affections, have been known, on the other hand, to fubdue the ague.

SECTION XI.

HECTIC FEVER, OR

CHRONIC REMITTENT FEVER WITHOUT CRISIS.

THUS would I win to denominate this fever, because the word HEGTIC, except here long continued cultom alone, gives us no determinate idea respecting it; and where any complaint is peculiarly marked by any known cause or symptoms, by which it devices from all others of the same class, and by which from them it may be diffing wished, can be confined in a very short compals, by terms expressive of that peculiarity would I have it marked down. As, therefore, heftic fever is of longer duration than any other remittent fever, goes off, when curable, by no known crifis, and, during the whole course, has various exacerbations and remissions, I have ventured to alter its appella-

Authors have been much divided with respect to this fever, fome confidering it always fymptomatic, deriving its fource from force local complaint, and depending entirely on that-others, that it may also be a primary difease, neither arising from, nor dependent on any other-for the latter opinion I confess myself an advocate; for, though hectic symptoms certainly do derive their fource from feirrhous obstructions and ulcerations of all the visce, a, more particularly of the lungs (28.) and mesentery, (46.) because it is faid the former are exposed to injuries from the external air, and the force of the blood circulating through

their

their fubstance; the latter is subject to the same from compression of the aliments in the first passages, from viscid chyle, (43.) and the slower circulation of the blood through the intestines; still may they arise immediately from some acrimony of the blood, because they have occurred certainly where no one viscus, through the whole course of the disease, was affected more than the rest; nor do the visceral obstructions, which are always found on dislection, destroy the validity of this opinion; for they are the effects, as well as causes, of bettie severs—of which we shall be convinced, if we will only examine the remote or inducing causes, which we shall shortly specify.

DESCRIPTION. The fymptoms are very fimilar to what appear in confumption of the lungs—the patients labouring under this complaint have a continued, dry, unnatural heat; they lofe their appetite, and their pulfe is fmall, weak, and frequent, though fuller and fironger after eating; they have no fentation of fickness; after meals a slushing of the cheeks comes on; and their urine is in general red, and covered with an eily pellicle; their sleep by no means refreshes them; they become hollow-eyed; their skin grows harsh, the belly finks inwards; a colliquative loofeness comes on, the body grows tabid, and death makes its approach by flow degrees.

On this fever the fagacious Dr. Heberden has made feveral useful remarks in the London Medical Transactions, Vol. II. page 1, &c. amongst which he says, "the most certain mark of this fever is, when the sweat, which usually attends this fever, is over; the sever will sometimes continue, and in the middle

es the chillness will return."

This is very readily diffinguished from all other fevers by the flowness of its progress—but from the first stage of the watery head, with great difficulty, and not without the most assiduous

attention to the fymptoms peculiar to each.

CAUSES. Remote or inducing are, immoderate and long continued mental affections—long watchings—too great evacuations, whether of blood, milk, femen, faliva, pus, fweat, or the alvine fluids—too acrid medicines, as mercurial preparations, throng purges, too often repeated—debility of the first passages, by which the chyle, either crude or corrupted, is conveyed into the circulating mass of sluids—preceding diseases, as intermittents, small-pox, measles, dropfy, scurvy, king's evil so called—suppressed evacuations—frequent intoxication—old people and infants are also subject to it, from their age alone, dependent upon constitutional debility.

The proximate or immediate, both from the preceding causes, and the modes of cure, are said to be, a saline and alcalescent

State

Rate of the fluids---whether this may be the precise case, perhaps it may be difficult to determine---though mucilaginous materials and acids are said to be beneficial, yet it is highly probable some species of acrimony takes place in the habit, as the lun-

damental principle of this difease.

CHARACTERISTIC SIGNS. Febrile affections long continued, having frequent increase of violence, no perceptible intermission, and not terminating in criss, attended with irregular valeular action increasing often in the day, more so in the evening; and generally at the beginning with tenacity, towards the termination, with putrescency of the blood.

CURE. The indications are, to mitigate febrile affections,

and correct the acrimony of the fluids.

If care is taken of this complaint at an early period, and proper advice administered, a cure may be effected---but, under these circumstances, patients often delay too long, and conside either in their own imaginary knowledge, or the family receipts of some humane old woman, till little chance remains for the skill of the more judicious; for when the powers of the constitution become to be greatly debilitated---the hair sails off---a colliquative dissolving looscasts, night sweats, and swellings of the legs come on---the urine begins to have an oily appearance, and the countenance assumes a cadaverous aspect, becoming thin and ghastly, all prospect of warding off the satal blow is irrecoverably gone, the patient is got beyond the reach of our art, and death quickly closes the satal scene.

In the beginning, where we can be of fervice, we must first of all clear the stomach and bowels by gentle emetics, (No. 11, 12.) and mild aperients, chiefly rhubarb—abate the sobrile heat by small doses of Polychrest salt, (171.) and nitre, (177.) and giving such doses of oil of castor, manua, or some such like cooling and gently opening medicines, as will keep the body free from cotiveness, (171, 172.)—in order to sheath the acrimony of the shuids, we must have recourse to demulcents, (187.) emollients, (137.) and particularly, which will be more effectual, to a well-regulat-

ed diet and regimen.

The food thould confit of chicken broth, jeilies, and if the flomach will bear them, oysters--milk, particularly women's or ato'-goat's whey-buttermilk, with Bristol or Selizer water. The patient thould live in a clear country air, on a dry foil; keep cheerful company; ride countantly on horseback, or travel from place to place--or he should take a voyage to sea, or fail every day, for that has been known to save numbers in the beginning of this disease, and some who were rather advanced; but to all it affords great relief. And at the same time, with intent to keep

up the tone of the follem, mild altringents, flight infufices of bark, one onnce and an half, with ten drops of dilute vitriche acid may be given twice a day, or two or three ources or lineture of roles also; three or four drams of the conferve may be mixed with fix or eight ounces of milk, and taken two or three times, or oftener, in the day :--- as for common drink, they thou'd use barley water, decoction of marsh-mallows, limited tou, or that of colts foot. Briflol water has been effeemed highly ferviceable; but it is often deserred too late. In the earliest stages of this difeate it should be applied to, for in them it promutes to be of the most essential service, little, as we have before remarked, being capable of being done in the more advanced or latter periods.

SECTION XII.

ERUPTIVE FEVERS.

CO called from the Latin word erumpo, to break out, and also in medical language ENANTHEMATOUS, from the Greek word exanthema, pultula, a pullule, because these eruptions make their appearance on the furface of the fkin--- and this is done by the effort of nature to throw out some matter offensive to the constitution, which was creative of disease.

Now though these partake of the nature of some of those we have mentioned in Section 8th, fill they derive their names from the eruptions with which they are conflantly accompanied, and of these there are several species and varietics --- of which we shall treat separately, because they require different modes of management, according to the different effects they produce upon the constitution.

And these effects will be affished or alleviated, by attending more to the habit of the patient than to the specific nature of the morbid particles which produce them; for we know nothing of the materials, or the parts of which they are formed, confequently cannot be able to find out any specific remedy which can correct them, so that the difease, of which they are the source, may be fubdued, by weakening or destroying the power inherent in themselves.

Therefore, in all our medical exertions, we attempt only to prevent the ill confequences they are likely to produce, by fo guarding the constitution, that nature may be empowered to se-

parate

parate and throw out what would, if suffered to remain, prove fatal to the human machine, either producing immediate death, or bringing on other maladies which would in time have a similar termination.

Now all these fevers of which we are going to treat are esteemed infectious, confequently contagious; for these two terms are used synonymously by the mest learned authorities. Notwithstanding which, I would endeavour to make some discrimination between them, and am warranted in the attempt, if any the leaft benefit can be derived to fociety by the observance of such a diftinction; to prove which, I affert, that there are some diseases which are acquired by the particles of morbid matter floating in the circumambient atmosphere, either from that matter being inhaled by the lungs, impregnating what we eat or drink; or abforbed by the inhaling veffels of the ikin, nofe, or fauces, whilst others are communicated from contact alone—hence the former of these I would term inf. Elious, the latter contagious; and for this reason the modes of prevention would be different-for in a country or town where the first was rife, quitting those places is absolutely necessary; but where the last, cautious relidence in the same is sufficient, avoiding commerce with persons so contaminated; or touching any materials, which are capable of retaining the contagious matter, that have by them been used or handled. Belides, in this county, it thews, in cates of the plague, the fecurity in drawing lines of circumvallation to prevent its progress; indeed other modes, from this idea, might be found out of great utility under these unhappy circumstances. Supported by these reasons, I shall beg leave to preserve the difference between the two terms, and proceed to treat on eruptive fevers from infection; and, first, on the

I. SMALL-POX, or Pocks.

Because we call a single pussule pock—this seems to be derived from the Saxon word pocca, pocket, or the French poche, a small bag. The Latins gave the disease the term variole, because from the eruptions it altered the appearance of the skin.

This complaint is occasioned by morbid matter of a peculiar nature absorbed into the habit from the external air, from contact of a person insected, or from inoculation, either by the inhaling vessels of the skin, lungs, membranes of the nose and mouth, or first pailages—and has been divided agreeable to the cuticular appearances, into dittinct, confluent, coherent—or into common, crystalline eruptions full of thin serous matter—verru-

rous, refembling warts-or bloody, filled with red fluid, or blood in a broken flate.

However generally now we adhere to the terms diffired and confluent; but this feems of little use in practice; for they may be diffired, yet of a very bad kind; and confluent, yet very good; therefore the more eligible division appears to be into fin-ple and malignant—the first comprehending those which are the least, the last, those which are the most dangerous.

This difease has four flages: the first, the febrile, which continues three days—2d, the eruptive, two days—3d, the seppurative, five or seven—4th, the exsistance, or slage in which the pushiles dry, two or sour days—or sometimes another sever

comes on, called the fecondary.

DESCRIPTION. It generally commences with fymptoms of an inflammatory fever, from whence the particles of the morbid virus are confidered not only highly fubtilized, but inflammatory and frimulant, attended with naufea or vomiting--pain in the head and back—tightnefs about the pit of the fromach—the patients are very drowfy, fometimes delirious—in grown people often fweats break out on the first days, and infants are apt to be feized with convulsions—the skin though, in general, is rather moist and fost—the upper orifice of the stomach fometimes

acutely painful, and also the sides.

These symptoms continue three or four days, on which appear finall red specks like flea-bites; which, when pressed with the finger, may be felt hard in the fkin, and thus may be diflinguished from other eruptions, particularly the meafles, which, on their first appearance, are very soldom so hard, or can be felt in this manner, as not elevating the cuticle fo much; first on the face, and feattered on the hands, neck, and breaft; and with these commences the fecond flage; from which period the pullules keep continually increasing, and distuing themselves over every part of the body; at which time the fever goes off when the erup, tion is completed; after this they inflame, begin to be prominent above the fkin, are painful, hot, and fill about the fifth day; and have round their basis a circular florid redness-the throat also is painful, and inflamed commonly—the face begins to swell and puff up, for the most part, on the seventh day, so much, that they generally close the eyes, and occasion blindness.

At this period, the commencement of the third flage, as if from external irritation, foliciting the perfect and complete difcharge of morbid matter, fresh febrile symptoms arise, which continue to the ninth, tenth, or eleventh day, according to the feverity of the disease, or quantity of the cruption. The pushules having acquired their full fize, most of them as big as pease, are filled

with a whitish or yellowish matter; this concludes the third stage; and then the matter oozes out at the top of the cruptions, dries, turns of a dark colour, and forms hard scabs, and this is in the same order in which they made their appearance—and, as the tage subsides, the seet and hands swell, and subside not totally till the fourteenth day, at which period the disease is considered to have completely sinished its course, which forms the conclusion of the fourth stage.

This is in general the progress of the simple or mild species—though sometimes another sever, called SECONDARY, will come on, when the eruptions have run so together, that they form one uniform crust, and by that means obstruct perspiration; so that, instead of the quantity of variolous matter passing out of the habit, it is again re-absorbed, and the intestines are loaded with an offensive collection of acrid materials, which create a sever of the

remittent class that often proves fatal.

But in the confluent fort there are some peculiarities which ought to be specified; and, therefore, we must observe, that in these the pushules break out sooner, on the second or third day; the sebrile symptoms run on with a greater degree of violence—and on the appearance of the eruptions, or a day or two after, which happens now and then in the distinct fort a specific will come on, guadually increasing to a falivation in grown people—in infants a looseness supplies the place—though in common the attendant fever of the small-pox is of the inflammatory kind, yet, in the more complicated fort, the sever assumes a different type, and 1 uts on the appearance either of—1st, an inflammatory remittent—2ely, nervous—3dly, putrid fever—or is associated, 4thly, with

Symptoms of dysentery.

IN THE FIRST, the febrile affections run very high, with excellive heat, and great proftration of ftrength-the fkin is dry and hot-the arteries, called carotids, running through the neck into the superior parts, throb—the tendons, (22.) grow shiff—the eyes are bright, vivid, and full of blood-the head and loins are painful, often without any delirium or drowfy disposition-when the eruption is finished, if the patient dies not before the completion, which, from the violence of the fever, is fometimes the cale, the head-ach, pain in the loins, vomiting, and other fymptoms, are relieved; but the fever revives its former force, continues, and has increase of sebrile affections every thirty. hours - hence termed tertian; -at this period there arise want ilcep, delirium, anxiety—there also come on bleeding of the copious fweats-then heat, and drynefs of the kin-very miliary eruptions break out in spaces between the public, or finall purple spots like slea-bit-sometimes an eryspelate at the

L12

flammation will occupy the head and face, and occasion a large inflammatory fwelling—the febrile and other fymptoms increase in the suppurating state, with tosing and delirium—the pushules subdue not, nor seem to be of a very bad fort—sometimes though they grow black and mortify—then the patients lie in a state of aparent sleep, and convulsions close the seem.

IN THE SECOND, at the commencment, there is great profitation of firength, lowness of spirits, obscure febrile symptoms, ex-

treme nausea, sickness, and oppression.

The perfules never puth forth perfectly, nor maturate kindly, but many lurk in the fkin; and those which elevate themselves a little above it, are flat and depressed, containing a thin aqueous fluid, and have a small black spot in the middle—the sace, when the eruption is copious and runs together, never swells, but looks as if covered with a yellowish skin, something like a macerated bladder of that colour.

A thin ferous loofeness generally comes on-if not, convulsi-

ons put a period to the unfortunate patient's existence.

IN THE THIRD, the fymptoms preceding the eruptions are nearly fimilar to the former; but the puffules are black; the bottoms of which are in a mortified flate; indeed, the texture of the blood is so broken by the patrefcent acrimony, that it runs off by urine, and various other hæmorrhages; the spaces between the putfules are black, and large broad spots, called vibices, or small ones, like slea-bites, are formed on the skin; besides, the red portion of the blood not only mixes with the ferum, and fills the eruption, but it raises large blisters elsewhere.

These pushules, which are only a little elevated, beginning to appear upon the second day, are black; the urine, for the most part, is bloody; as are also the stook, spittings, vomitings, and in some even the tears; the sever is violent, and the sebule sits almost insupportable.

In the Fourth, which was called Dysenteric, because it happened in the year 1670, at the time of the epidemic dysentery, and partook, in some degree, of its nature; or, because the matter of the small-pox was often thrown out of the constitution by interimal evacuation, when treated by the warm regimen, not un-

common in those days,

In this the eruption does not occur, as in the mild fort, on the fourth, but on the third day; the puffules are of a lefs fize always, and are fharper, or more pointed at the top, and grow blackish towards the conclusion—besides, a copious discharge of faliva, as in the confluent kind, is often a concomitant. Should the acrimony of the putrid, which produces the alvine flux, that forms

forms the characteristic tign of this species of small-pox, be very copious and active, occasioning the discharge to be violent, it

almost always proves mortal.

CAUSES. The remote or inducing of this, as well as of every other species of infectious or contagious fever, is a predisposition, or peculiarity of the constitution to feel the impressions made by the morbid matter, productive of differs in the moving solids, and alteration of the fluids of the machine.

The proximate or immediate, contaminating particles, peculiar to the imall-pox, abtorbed into the habits, and these producing febrile effects, which vary according to the nature, or particular

state of the constitution at that time.

CHARAGTERISTIC SIGNS. The only certain ones are the eruptions themselves, with their progressive concomitant symptoms, the appearance of which may be suspected in the first stage, it the attack should be sudden—if the small-pox should be the reigning epidemic, or the patient so situated, that he has been thrown in the way of this specific infector—if pain should affect the back part of the head, sauces, loins, particularly the pit of the stomach, attended with vomiting, and that pain increased on pressure.

CURE. The indications are, to diminish the assimilating or contaminating power of the morbid matter, and keep the fever within such bounds, that nature shall be enabled to separate from and throw out of the habit the offensive materials that cause the distress, which is done by so regulating the motions of the nervous and vascular systems, that the constitution may be put into a state to mitigate and support the succeeding contest with the

greatest ease, and freedom from danger.

And this knowledge we shall acquire, by considering the fituation of the habit, the mode of living, and season of the year, with respect to the weather or constitution of the air, as these will dispose more or less to the production of inslammatory, nervous, or puttescent sebrile assections; for I am certain, that, according to the nature of the sever, so are we to regulate our conduct, and hence observe those rules which have been previously laid down in the management of those different severs specified in our eighth and ninth sections.

Sometimes the disease is so extremely mild, that there is no need of medical assistance, though at the close, in order to clear the sirst passages from any southers or offensive matter which may have been collected there during the progress of the complaint, it would be right to give two or three purges. (No. 3. 19 to

24.)

At others, it is of a very dangerous nature, and requires the

assistance and fagacity of no finall share of medical knowledge, as it is accompanied with such a variety of threatening symptoms.

Should the small-pox attack strong, hale, robust habits, where inflammatory symptoms run high, which they sometimes do to such a degree, as to affect the brain, throat, or lungs, so as to produce delirium, sufficiation, and extreme difficulty of breathing; according to the violence of the symptoms we must have recourse to bleeding, and that repeated, if they give not way to the first operation—indeed, if the pulse is hard and full; the heat confiderably above the natural standard; the urine high-coloured; the pain in the head, back, and loins acute; the bleeding at the beginning should be copious—and, under these circumstances, blood may be taken even at the height, or any intermediate stage—we may also give antimonials, nitrous and cooling medicines, and such other things as have been advised in cure of inflammatory severs, (210, &c.) for the same reasons.

If the head should be violently affected, the feet may be bathed in warm water, and warm fomentations, or poultices, applied to them; for these will solicit a freer circulation downwards, a more copious eruption into the extremities, and diminish the quantity of variolous matter, which otherwise would appear in the

more superior parts.

After once or twice bleeding, a gentle emetic, (No. 11, 12. 38.) would be useful, and clearing the first passages with some mild aperient, (No. 3. 22 to 24.) or at least repeated glysters

every, or every other day, (No. 25, 26.)

By the means above directed, we reduce the active power of the fythem, that it may not be hindered from throwing off the matter of the fmall-pox, by the too great diffurbance and diffress occasioned by the rapidity and violence of febrile ac-

But should the train of symptoms be such as indicate the prefence of a nervous fever, (225.) we must endeavour to rouse the vascular motions, and increase the activity of the nervous system, in the manner we have directed in nervous sever, (216.) for, without this, there will only be a partial separation of the variolous matter thrown out upon the surface of the body; and the internal parts, such as the brain, stomach, lungs, and bowels, be more loaded, and the sluids not perfectly free from morbid particles. To obviate these inconveniencies, we must not do any thing that is likely to turn the humours upon the bowels, nor take away any blood; for these would weaken the system, already in too debilitated a state, and render the sluids too acrimonious; we must try to invigorate the constitution, in order that

the blood may circulate with proper freedom externally, by wine,

wine-whey, volatiles, and cordials, (218.)

The load, naufea, anxiety, and oppression, which are almost always constant concomitants in this species of febrile affection, might be relieved by an emetic. (247.) for the shock would tend in some degree to rouse the system, and promote the eruption by that means.

Should the fever attendant be of the putrid kind, and betray fymptoms of prevalent putrescency in the humours, we must not have recourse to the lancet; for bleeding would hurry the contitution rapidly into all those mischiefs which arise from extreme debilitated nervous action, and broken texture of the blood, as before explained when treating on putrid sever. (223.)—here we must depend upon bark, and such things as were specified when treating on that malady.

In order to promote fuccess in treating this complaint, in the best manner we can, by procuring a separation and expulsion of the morbid matter, we must, indisputably, pay attention to the precise nature of the sever; for it is by properly regulating that

from whence we can hope for perfect and lasting relief.

Particular occurrences present themselves frequently, which call for our attention in an especial manner, added to the general plans we have specifically pointed out, in which we must at-

tempt to imitate nature in her operations.

When infensible perspiration is too much impeded by the pustules crowding so close together, and obstructing the pores of the skin, the produces either a copious spitting, free discharge of urine, or looseness, to make up that defect, or lodges the aqueous sluid in some part of the cellular membrane (26.) of the hands and seet, which at that time put on dropsical appearances—hence is pointed out to us the necessity of serous evacuations.

It is therefore incumbent upon us to endeavour to promote the flow of urine from the completion of the eruption to the turn, by the use of directics; the safest of which is eithereal spirits of nitre, (176.) and taking the patients now and then out

of bed, and exposing them to the cool air.

Small doses of calomel, under these circumstances, have been attended with some success, as they often promote a spitting, or increase the discharge of urine; or, should we be assaid of determining the humours too much to the bowels, it may be thrown into the habit in form of ointment, rubbed in above the knee, or on the inside of the thighs.

But if these discharges are desective, or cease altogether, and there is no swelling in the extremities sufficient to counterbalance the decreased or obstructed evacuations, the ankles or wrists must be blistered, by infinuating some blistering ointment into the spaces between the pushules—and it this succeeds, by creating a free discharge, the danger which before threatened may be happily prevented—if not, we shall have reason to lear a stall conclusion.

Sometimes reftleffnefs will be occasioned, and the febrile fymptoms increased, by irritation on the forface of the body, creating pain, as the pultules proceed to perfect maturation and drynefshere opiates (151.) (No. 4, 5.) procure evid and fleep, forward suppuration, expedite teparation and expulsion, by preventing internal diffurbance in the fystem from the canfes above speciaed. But perhaps, by their use the body may be rendered coftive; or if fo, at this period, from any other cause, genule aperient medicines have been recommended; but glysters, (No. 25, 26.) every day till the dryness of the pocks takes place, are more eligible, as from them there can be no danger of creating the fmailest didurbance in the habit, nor of determining the fluids too much to the intestines, so as to run the least risque of inducing a loofeness; and they will also effectually assist in preventing an increase of febrile diffress, which might arise from collections of acrimonious matters in the first pullages.

Sometimes after the increftation is perfectly formed, from the reforption of pue, orientive acrid matters in the first paffages, or the absorption of acrimonious or factid particles from foul linen, the secondary sever is apt to arise. In order to prevent which, the patient should have his linen changed, be put into fiesh theets well aired, every thing be removed from him which can be supposed to harbour offenive matter, and a purge, (169, &c.) (No. 19 to 22.) given as soon as the crust is

actually formed.

Though some conjectured, with equal if not with more probability, that this fever arises from the imperfect separation or expulsion of the variolous matter, and that it becomes the instru-

ment of nature to free the habit from what remains.

However, be the case which it may, if it runs high, and is attended with violent head-ach, great oppression, and difficulty of breathing, bleeding may be necessary, and to long as the pulse can support the operation well, it may be repeated -blisters should afterwards be applied—and purgatives administered, if the pulse does not slag—and ve ctable acids should be mixed with common drinks—but should the strength fail, we must have recourse to cordials.

If it goes not off by these means, it will, in all probability, put on the appearance of a remittent sever, and as such must be considered—for the subduction of which, we must, as in cases of

those

those severs before specified, (252.) apply to the bark, (253) and with respect to the quantity to be applied, the age of the patient,

and violence of the difeate, must regulate our judgment.

Some, in order to mitigate or prevent this fever, have advised the puffules, as from as they are fully matured, where they are of the confluent kind, to be opened as they ripen, in the order they make their appearance. I am, however, far at present from recommending the adoption of fuch a plan, as I should be fearful of the most dan crous confequences enfuing from fuch a practice, particularly where the fever, after the eruption, All continued with any degree of force; for it is very probable that, from thence, there is not a doe separation of the morbid materials, and that the fecondary fever is very often, at leaft, an effort of nature to throw what remains out of the habit-and that by the irrita. tion on the ikin this purpose might better be effected, than by its being taken of; for from fach attempts, there has been reason to believe death the confequence. Much mischief has accrued from applications made to gouty limbs, from the impetuolity of the fufferers to take off the pain arising from that cause, before the whole of the gouty matter had been deposited; and in these two cases the reasoning is nearly similar, as well as some others; and it is well known, that nature frequently makes pain ariling from fome irritating power the fole cause of constitutional relief. I would therefore advise great circumspection on the present point, which only can be warranted by practical certainty, not whimfical, though ingenious, conjecture.

Sometimes the small-pox will be attended with a remittent fever, (250, &c.) verging to the inflammatory class; then the disease must be treated in the same manner as we have delivered

when treating on that fever. (210.) (See 2;2.)

Sometimes the erupions will put on different appearances, (265.) which from thence are called CRYSTALLINE, and be attended with a nervous fever; in this case therefore, we chiefly depend on blisters and vinous cordials, with such other aids as we have specified in the treatment of the flow nervous fever. (216.) Or SANGUINEOUS OF BLOODY, and have for their concomitant a putrid sever; in which case, without some service can be done in the beginning, not one ray of hope remains for our success—for which purpote we must depend upon bark, and such other antiseptics, (192.) as are supposed to have the most powerful and immediate action, the principal of which is alum, (137, &c.) (No. 56) and pursue the mode of management throughout, as recommended in the putrid sever. (223.)

Or, they are attended with extreme pain, and violent flux from the bowels, putting on the appearance of dysentery, (268.) —in this case we must endeavour to retard the sux, by some gentle cordial antacids, of the shell or earthy kind, (1911) called abforbents, (No. 42, 43.) or the white decoction, with red port or

claret, or aftringent draughts. (No. 75, 76.)

But in this complaint much nicety is required—for alvine flaxes are not always to be confidered morbid, they are formetimes critical, and the means of which nature makes use to carry morbid virus out of the habit—if, therefore, the pulse does not fink, but continues to move with strength and greater freedom, and the oppressive symptoms are all alleviated, the use of astringents should be cautiously administered. It would be more advisable, to support the patient by mild cordials, and exhibit such medicines as would sheath the bowels, and suffer the matter to pass through them with the least uneasiness—small doses of ipecacuanha (No. 57.) will be beneficial, and preparations from the class of the demuseents, as mixtures of gum tragacanth, Arabic, starch, and such like; and, towards the conclusion, opiates, joined with some of the mild aftringents, might be used. (No. 77, 78.)

With regard to the diet, it is always to be adapted to the nature of the lever, during its continuance, which may be collected from what has been faid on this head, when treating of the inflammatory, nervous, and putrid fevers. The apartments must be kept cool, and the patients fit up fome hours every day, if the circumitances of their case will permit—and after the complaint has finished its course, purgatives should, at proper intervals, be repeated, to clear the habit of any remains of morbid particles; and the same course pursued for the recovery of the thrength, as after the conclusion of other severs, where the con-

stitution has been much harraffed.

Long experience have enabled practitioners to make the following observations respecting the good and bad omens in this disease:

The later the small-pox make their appearance in winter the less dangerous they will be—they are also more mild in the young subject than the strong adult—the longer the first, or sebrile stage, continues before the eruption, to much more mild; the shorter, so much the more violent may we expect the ditease to be—should there be an acute pain in the side, or in the upper orifice of the stronger, they are bad signs—the more the pustules crowd together, the more numerous they are in the face and trunk of the body; the more stat or depressed, the slighter the remission in the second, or eruptive stage, so much greater will be the danger—a delivium succeeding the eruption imports no little mischief—desiciency of the salivary discharge, in the depressed or confluent fort, is one of the wor! symptoms—the more slorid the spaces between the pus-

tules are, the greater may be our hope; palenofs there affords us

no flattering profpect.

If the mater in the pullules be white, vifeid, and full, it is a fortunate appearance; but if, on the contrary, it should be brown and thin, and the pullules grow vellow, or have their tops indented, it is the reverse—if the spaces between the pullules, and they them-felves, are livid, death is at hand.

It is also a bad omen if the secondary sever appears before the retrocession of the pustules—if the suce subsides, and the falivation or spitting ceases, and the bands and arms swell not in the same proper-

tion, in the confluent fort, it is a fign of death.

If, on account of being too heated, the patient cannot bear the bei-cloaths upon him, it portends a delivium—great inflammation of the fauces, quickness in breathing, clear urine, with little cloudiness floating in it, grinding of the teeth, picking of the flocks from the bed cloubs, threaten disolution—nor are we to build any hopes on the remulion of delivium, if the fever continues in the same

flate.

Before we close this part of our subject, we must beg leave to make one general observation respecting all eruptive severs, as well as the small-pox—that as many, though their eruptions arise from the consequence of their peculiar action on the constitution, and produce specific cuticular appearances, are ushered in by some sever, either of the instammatory, nervous, or putrid kind, in general; yet, should they be attended, as sometimes they are, with those of the mixed class, where we cannot perfectly distinguish to which of the more simple fort they belong, we must treat them according to the ideas given in the mixed severs, (240, &c.)

§ 2. INOCULATED SMALL-POX.

It is rather fingular, that after so many years experience of the advantages accruing from inoculation, that there remain any so blinded to their own interest and happiness, as to be desirous still of abrogating the practice—which is the preserver of life, beauty, and health, so perfectly clear to common observation.

The mere recital of the benefits annexed to it are fo conspicu-

ous; that reasoning is unnecessary.

It supplies us with the opportunity of having the body properly prepared for the reception of the morbid matter; so that it may be freed from such materials as would supply an active cause to increase and prolong sebrile affections; and thus prevent the sever, which always attends in the small-pox, from running too high, or producing otherwise dangerous effects, according M m 2

to the nature of the conflitution—it occasions a smaller quantity of cruptions, and the pushules to be more supersical—hence not leaving those deep pit, and often unseemly sears as in the natural small-pox—it supplies us with a knowledge of the disease at the first order, and enables us to provide against its consequences—it empowers us to throw in the matter into the constitution from places far distant from the vital parts, and prevents the lungs being primarily affected—and, what is of great consequence, it enables patients to chape the secondary sever, so stated to numbers; for in this artificial fort it rarely attends—add to this, the operation is so extremely trisling, that it is performed almost without the slightest pain, in the following manner:

The feart kin, of one or both arms, is elevated by a lancet, upon which fome of the infectious matter, taken from a patient labouring under the fmall-pox, remains, then prefling the fearf-fkin upon the lancet, and with drawing it from under that prefluce, the variolous matter is left upon the true fkin, and taken into the habit by the absorbent inhaling veriels, which open upon its furface.

Subjects of every age may be inoculated, even such as are at the breast; by some esteemed the best time of life; but it should be before they begin to cut their teeth—certainly their constitutions are at that time in the most proper state—and, could we be assured that no accident would occur that might need the aid of medicine, there could not be a moment's hesitation respecting the presence; but, on this account, I shall rather recommend inoculating at two years old, when complaints could not arise from teething when the constitution was not in so irritable a state as to be inconvenienced by slight causes—and, in cases of necessity, should they arise, the application of medicines would be less resisted.

With regard to the feafon, practitioners have differed in that point—the hot months in furnmer I confider as the most exceptionable, and give the preference to those which are the most temperate—the spring, or latter part of autumn, taking care, during these periods, to avoid performing the operation when inflammatory or putrid severs or other acute complaints were epidemic, for very obvious reasons.

The modes of preparation should be adapted to the constitution of the patient.

Generally living cool and temperate for three weeks, feeding on acescent sood, with new and then a gentle mercurial purgative, for these of healthful habits, will in common be sufficient—but those of puny constitutions, whose system is relaxed, should live more freely, and be allowed animal feed once every day, of

the light and cafily digestible kind, and in moderate quantity, mixed with accident vegetables.

In fine, preferring the conflictation in a moderate degree of firength, clearing the first passages, removing glandular obstructions, making that system act with freedom, and loading the machine, as much as may be, with accident shids, seems the most rational mode of putting the body into the best state.

By these means, the nervous and vascular system will be enabled to perform their functions properly, and the humours not become prone to run into an actimonious or putrescent state hence nature will not meet with any impediment to prevent her from separating and throwing out the offenive matter, after it has

produced its effects on the mais of circulating fluids.

It has been thought, and I am of or inion, rightly, that it is immaterial from what fort of intall-pox the inoculating matter is taken, as the different kinds produced depend not upon the nature of the morbid particles, but the confliction into which it is thrown—for there will be a bad fort arise from matter that has every mark of mildness, and a good fort from such as appears more of a malignant nature; nay, indeed, different people inoculated with the same matter taken from the same puttule, have been known, and that commonly, to have different forts of the small-pox.

However, I would always advise it to be taken from such subjects as labour under the disease in its mildest state, and have the most favourable appearing pus—for it is our business to take matter from those constitutions which, by the appearance of the pocks, beforeak the greatest purity, and freedom from any morbid taint—for all people are not a greed upon what the malignity of this complaint depends; and many conclude that other disorders may be inoculated with the small-pox—these, therefore, furnish arguments sufficient for great cautions in our election.

on the second day, if the parts are examined by a good magnifying glass, there appears commonly about the puncture an orange-coloured stain, whilst the skin around it seems to contract; but sometimes an inflammation takes place on the second day, then disappears totally—this, though, may srife from irritation from the puncture, tribing as it is; we remain, therefore, doubtful whether or not infection has taken place—but if it has succeeded, on the fourth or sight day from the operation, a hardness and itching, with an apparent inflammation of the part, is perceptible; and a kind of placer, filled with a transparent liquid, is observable; are also been examined and some second state.

On the fixth day, a pain and stiffness assess the arm-pits.

On the leventh, but more frequently upon the eighth, femntoms which precede the cuption make their appearance; and these are commonly such as shew themselves in general at the commencement of severs—cold chilis and best alternate with each other, a slight degree of languor, heavings of the eyes, and slight pains in the head and back, are, now and then, perceptible; and these remain pretty constant till the small-pox manifest themselves.

The inflammation now begins to spread very fast, and, round the punctured part, a great number of small cruptions may be seen crowding together, which increase during the course of the difease.

Surrounding the inciden, and extending itself half way round the arm, but more commonly describing the breadth of a shilling, a circular, or oval, essercionous is observable. The larger this inflammatory appearance is, which is smooth to the touch, and not painful, the sewer are the general publicar cruptions—and, indeed, I have observed, when the thread was made use of, this was the case, if the discharge from the incision was very copious—now ail the symptoms cease, and the business seems to be perfectly finished.

UNFAVOURABLE SYMPTOMS. Though this is the progress of the disease in general, yet it sometimes happens that there are deviations, and that we have not inflammatory appearances on the wounded arm till the eighth day, then it will suddenly shew itself, with the other concomitant symptoms—this is not recorded as a favourable omen—fill it sometimes is in this point

deceptive.

But if the colour around the puncture continues pair, though it is barely perceptible that ineculation has fucceeded, inflead of becoming red or inflamed—if the edges of the wound spread but little, and remain fit, nautrended with itching, or any kind of ancasines,—if, interd of a red inflammation about the incision, it should have a purpleh cast; if red, and the circle round the puncture should be parrow and deep, and the incrustation around it should be depressed and concave in the center, they are considered us unfavourable signs.

FAVOURABLE SIGNA. On the other hand, if on the fecond day there should be an orange-coloured stain round the incision—an itching there in two or three days—a kind of clevation of the scarf-skin, resembling a blister, without much inflammation, on the third or fourth day—a pain or stiffness in the pit of the arm, a large efforce comes and the puncture, on the tenth or eleventh day, or somes—a hardness spreading circularly from the puncture, the inflamed part of the arm elevating itself, and forming a point, terminating in a dry seab; these are said to form very pleasing pregnessies, and states us with the most agreeable expectations of a happy conclusion.

CAUSES. There are fimilar to what we have before recited in the small-pox—for if the constitution is not possessed of the predisposing cause, no effect will be produced, though the various

lous matter should be thrown into the habit.

CURE. In the evening after the puncture is made, it hath been thought adviseable to give a few grains of the calomel powder, as much as will procure two or three evacuations, purging it off in the morning with fome gentle cathartic. (No. 79,

Or, instead of the last, a dose of Glauber's or Polychrest salt, pronortioned to the age and constitution of the patient—these are edvised to be given every second morning and evening, till the appearance of the eruption. This is superfluous, two doses will be in all common cases sufficient, immediately after the operation, and a day or two before the attack. If the inflammation is slight at the puncture, the dose of calomel must be increased.

Afterwards we have nothing to do but to guard against the febrile symptoms, which are in general io mild, that there is lit-

tle occasion for medicine.

At the commencement, if necessary, what has been just above prescribed are advised; and repeated two or three times, if the

disease appears to be of a late or unfavourable sort.

In the intermediate days, should the fever run high, Clutton's febrifuge spirit, or the athereal spirit of vitriol dropt into any aqueous sluid, so as to make it agreeable, may be taken often in the day.

As foon as the fymptoms of the emptive fever come on, the patients should continue to be exposed to the cool air as much as possible; for it is the best cordial and corrector of sebrile affection in this case, as I have repeatedly experienced.

Indeed, when the febrile fymptoms appear to be violent at the onfet, great good has occured from the administration of an an-

timonial emetic and purgative.

Where the fever appears to be languil, and the patients are of weak and delicate conflictations, some caution is here necessary; for these, perhaps, it will be sufficient to be kept in a large well ventilated room, especially if the weather should be very cold; and they should be supported on something of a more cordial and stimulating, nature, than if things were otherwise, and the patients more robust, who should be kept, during the eruption, on a mere accessed diet.

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After the eruptive flate is over, and the pullules begin to maturate, small broths, jellies, white wine whey, or such like ma-

terials, may be allowed.

In this state of the disease, the weakly and more delicate may require to be kept in bed, and supplied with more cordial applications, in order to perfect the suppuration of the pushules, and totally free the constitution from any remains of the variolous matter.

If we proceed in this prudent manner, adapting our mode to the particular confliction of our patient, we shall very feldom have much trouble; but should the earste uncommon complaints now and then in the inoculated finall-pox, it will be necessary for us to proceed as directed in the natural discusse. (265, &c.) observing whether it verges to the nature of instanantory nervous, puttid, or mixed sever, and conduct ourselves confishent with what the symptoms point out to our judgement.

§ 3. MEAZLES.

Called by the Latins morbilli, as being a disease of less consequence than the small-pox; as by morbilus, we understand morbus parvus, a trining disease—they have also been named rubeo-læ and roseolæ, from the redness attending the cruption, or putting on a colour similar to roseo—like the small-pox, this disease appears to be a native of the East, and has certainly a great affinity with that complaint, as they are both generally of an inflammatory nature, equally infectious, and never asset the constitution twice—some authors say, except very rarely indeed—because the habit cannot be brought a second time into such a state, as to feel the effects of either of these insectious particles, so as to reproduce the disease, should they circulate ever so plentifully in the sluids a second time.

They generally make their appearance in the month of January, rage most violently about the vernal equinox, and disappear

in July.

They commonly attack children; but all constitutions, which have never before felt their influence, are the objects of this infection—hence, in the more advanced stages of life, many with them are afflicted—they are propagated by the particular constitution of the air, and become highly epidemic.

Some have confidered the attendant lever of the simple inflammatory fort; others as a catarrhal, or inflammatory remittent; some say it is of the peripheumonic kind, and conceive the eruption, not as critical, but symptomatic, as the cough and affections of the lungs will remain after that is over.

Accord-

According to my conception, it is in general a febrile difease of the inflammatory kind, always infectious, electively affecting that membrane, called scheiderian, which lines the inside of the nose, throat, and lungs, and, in its progression, the skin—though I have seen the affection of the lungs to extremely slight, as not to call forth the least attention, where there was a diarrhea attended through the whole course of the disease.

DESCRIPTION. Its progress is divided into three stages the first precedes, the second attends, and the last succeeds the

completion of the eruption.

At the commencement there are chillness and heat alternately fucceeding each other-foon after, on the fecond day, the fever increases, attended with confiderable fickness, great heat, thirst, languor, and loss of appetite—the tongue is white—there is a heavinets of the head, and drowfinets-fneezing-brightness of the eyes, from whence flow a thin humour-the eye-lids fwell, and, most commonly, there is a dry and very troublesome cough --- fometimes vomiting and loofenels are affociates with thefe. the last of a green colour, when children are getting their teeth --- and all these symptoms gradually increase till the ERUTTIVE. or SECONDARY STAGE begins, which occurs generally on the fourth day; about which time small red spots, like "ca-bites, make their appearance in the face, which run into clusters, forming larger fpots, rifing above the skin, perceptible only to the touch, not the fight; afterwards broad spots spread over the body downwards, not quite fo prominent, though of a higher colour than those of the face --- when the eruption is finished, the vomiting ceases, but the sever increases; and the cough, with the difficulty of breathing, become more violent -- a fiveat and diarthea now, and then supervene.

On the fixth day, or thereabout, the THIRD STAGE commences, on which the fpots on the face grow dry, and give it a rough appearance; and in three days more they totally diffupear from the whole body; for on the ninth day nothing is to be feen, except a dark coloured fine farina, or appearance like bran all over the furface of the kin---at this period, the fever and cough are fometimes alleviated; fometimes increased, and terminate in a dangerous periponeumony---and not unfrequently a loofeness fuc-

ceeds the dileafe.

After this we are not to conclude the patient free from danger, unless, during its course, some considerable evacuation has taken place, either by sweating, vomiting, urine, or looseness; for without something of this kind occurs, the cough will continue, the sever will return with additional violence, and the N n

firength not be recovered except with great commotion in the

fystem, and, consequently, extreme danger.

Though what we have described is the most frequent mode of the meazles appearance and progress to their termination, yet fometimes they differ so much, that authors have denominated them ANOMALOUS, or IRREGULAR, as deviating from the common course, or as in the eruption putting on the appearance of the small-pox—both which we shall describe before we proceed to the cure.

The anomalous differ from the mild fort, because the eruption happens not on the sourth day, but sometimes before, and sometimes after—the symptoms preceding, as well as accompanying the eruption, are more severe—the eruption does not begin so much on the sace as on the shoulders and trunk of the body—and because it is attended by more dangerous consequences.

Besides the symptoms which are common in severe severs, there are some which are more peculiar to eruptive ones of this sort; for here the pulse is small and frequent—respiration is short and quick—there is an oppression of the hypochondres--(33.38.)—the urine pale—a great drowsiness—twitching of the tendons—spasms—delirium, with redness and watery appearance of the eyes—load on the eye-lids—and pricking pain in the skin--a foreness of the throat comes on, with a shrill hoarteness, and violent cough, in which children appear almost suffocated, vomit up their sood, and grow black in the sace--when, after so severe a struggle, the eruption appears, the sever in part deposits its malignity, the disease is at its height; and the sever persists in the same manner to the drying of the spots, which yet, according to Sydeniam, did not seem to put on that branny appearance as before described.

The event of this fever is often dreadful and deadly; for, on the eruption receding, the fever and difficulty of breathing are augmented—a peripneumony and diarrhea, occasioned by the striking in of meazly particles, comes on; which last is not without danger, as happens often in the milder fort, because bere it is acrid, dyienteric, and excruciating—fometimes a cough, difficulty of breathing, and hectic sever succeed—at other times, a general dropfy, but oftener obstinate inslammatory affections of the eyes.

The OTHER is faid to be common at PARIS, wherein the eruption is different from that of the common regular meazles; for they are more prominent, suppurate perceptibly like the small-pox, and occasion the face to swell confiderably; but then they are attended with the cough, watery eye, and other affections,

arifing from defluxions, which chiefly diffinguish them from the fmall-pox.

CAUSES, whether inducing or proximate, are fimilar to those of the small-pox, (269.) the peculiar particles only creative of

the disease being altered.

CHARACTERISTIC SIGNS. An infectious inflammatory fever for the most part, with which are associated, a destuxion of a thin watery humour from the eyes, tick ling in the nose, sneezing, dry cough, more or less violent—on the fourth day, sometimes sooner, sometimes later though rarely, small spots running together, perceptible to the touch on the face, but broader on the body not perceptibly elevated above the skin, break forth, which in three days after are converted into branny scales in part, and totally disappear upon the ninth day.

CURE. In fo mild a manner will the measles sometimes affect patients, that little is necellary to be done, except abstinence from all animal food, or heating applications; and drinking freely of thin watery acescent liquids, such as common sig drink, made agreeably acid with lemon-juice, apple water, or some such

like fluids.

But should the febrile symptoms run high, we must proceed as directed in the small-pox, (26.)—but great attention must be paid to the affection of the lungs—oily emulsions and linctures, (No. 81 to 83.) may therefore be prescribed occasionally, in conjunction with the other remedies, calculated to keep the febrile affections within proper limits.

Should oily medicines disagree with the stomach, as is sometimes the case, we must have recourse to the class of demulcents, (187.) (No. 84.) using the pectoral decoction, or that of linseed

as common drink.

After the eruption is completed, slight opiates are ferviceable—but as nature generally performs her critis either by sweats, looseness, or urine, we must observe what way she directs her efforts, and proceed as we have before directed in cures of this kind.

where they occur in fevers not eruptive.

As foon as the redness of the skin goes off, and the spots begin to die away, gentle purgatives must be administered, at proper intervals, and the patient return to his usual mode of life gradually, (209.)—care also should be taken, that patients expose not themselves too early to the cold air, for these are apt to bring on a very disagreeable cough, althma, and consumption, from affections of the lungs, or of some other parts.

Some perplexing fymptoms, notwithstanding all our attention, will now and then present themselves, which ask for our utmost

exertions.

Should a delirium come on the fourth day, wherein the pulse is small, it is an unfavourable omen; still by the application of leeches to the temples, it may be mitigated or fub-

It is also a bad fign if the fever should increase and become violent, accompanied with intense thirst, about the termination of the disease-and should there appear great danger of suffocation, as will fometimes happen from too great an afflux of ferous humours on the lungs on the ninth day, we must fly to bleeding, according to the strength of the patient, and apply blisters, to prevent an inflammation coming on from that caule-which, if it cannot be done, suffocation may be the immediate consequence-or, eicaping that abteefs will probably succeed, a hestic fever and confumption.

A diarrbaa, or dyfiniery, is apt to come after vomitings of green materials; and continue, though the meazles have finished

their courfe—these complaints yield only to bleeding.

The meazles which put on the appearance of the small-pox, re-

quire the same mode of treatment as the mild fort.

But in cases of the anamolous species, we must be directed by the nature of the fever, and proceed in our modes of cure, as pointed out in our treatment of the different kinds of the small.

A moderate loofeness, with a softness and gentle moisture of the skin, alleviate all the febrile symptoms—but the slower the eruption, fo much greater will be the danger-of which also we may have strong suspicion if they make their appearance on the fecond, or the firth and fixth day from the attack-if they should retrocede, and be affociated with delirium, or become livid, the worst is to be dreaded-too high a degree of redness or paleness of the pullules, great proflication of flrength, vomiting, great rellleffiness, difficulty of swallowing; or other spots, purple-coloured, like flea bites, are also dangerous appearances—the contrary of all which will flatter us with most pleasing expectations.

Few people have thought the meazles to be a disease of sufficient confequence, to avail themselves of those assistances which, as in the finall-pox, might be derived from inoculation in this complaint. As for my own part, practically I cannot say any thing on the subject; but if we may believe the authority of fome who have made the experiment, or be allowed to depend on reasoning from analogy, our labours might be happily rewarded-for it is afferted, and appears probable, that from inoculation from infected blood, on the fixth day a flight fever manifefts itfelf most commonly, though it is very moderate, unat-

tended with lofs of fleep and inflammatory fymptoms; and it is neither fucceeded by a heelic lever, cough, nor inflamed eyes; fo that we find we thould be freed from a train of the most dangerous fymptoms, and confequently relieved, in many cases, from the most diffressing apprehensions.

§ 3. WATER-Pox.

This obviously takes its name from the fluid with which the

pustules are filled.

DESCRIPTION. This is a difease which attacks children about two or three years old, without any remarkable schrile symptom or indisposition; it chiesly appears on the face, in small red pullules full of a clear or whitish watery sluid, about the size of a lentile; some of which dry off in two days, whilst others increase; and all fall off in a dry state within the space of sour, generally leaving no pits in the skin, as they are commonly attended with no inconvenience.

There is another variety which frequently affects infants a week old, and path forth finitar watery puffules, about the navel, arm pits, and fingers, which grow dry within three or four days, and fall off in a feab.

The cure left totally to nature is always fufficient; and nothing more necessary, than, if it is cold weather, keeping in bed,

Living upon gruels, weak broths, and warm liquids.

§ 4. CHICKEN, OR SWINE-POX.

Having had in the course of practice so little opportunity of attending the complaint throughout, and when called, there being so little to be done, I contest it scarce ever awakened my obfervation, as nature, after the stomach and bowels were cleared, it such attempts appeared necessary, always performed the cure. I am happy to have it in my power to supply my readers with an account drawn by the pen of so accurate an observer as Dr. Heberden, who says, in enumerating the

SYMPTOMS, that the pocks in many break out without any previous figus or illueis; in others they are preceded by a flight degree of chillness, laditude, cough, broken fleep, wandering pains, loss of appetite, and feverill for three days—the puttules in most of them are the common fize of small-pox; but

fome are lefs—they are never confluent or numerous.

On the first day of the eruption they are reddish—on the fecond there is at the top of most of the pushules a very small bladder, about the size of a millist-seed; this is sometimes full of a watery and colourless liquor, sometimes it is yellowish, contained between the cuticle and skin—on the second, or at the farthest, on the third day from the beginning of the eruption, as many of these pocks as are not ruptured teem arrived at their full maturity, and those which are sullest of that yellow liquer very much resemble what the genuine small-pox are on the fifth day.

A thin scab is formed at the top of the pussule from the cuticle being burst, on the first or second day, which contains this thin sluid, by accident, or, perhaps, from rubbing to allay the itching; the swelling of the other parts abates without its being ever turned into pus—those which escape being burst, have the little liquor turn yellow and thick, and dries into a scab—on the fifth day of the eruption they are almost all dried and covered with a crust.

The patients fuffer little, except fome languor of spirits, firength, and appetite.

This difease wants no remedies.

It is diffinguishable from the small-pox by the appearance on the second or third day, from the eruption sull of serum upon the top of the pock.

From the crust also, which covers the pock upon the fifth day, at which time the small-pox is not at the height of its suppuration.

But of this diforder there appears a more malignant fort.

For three or four days all the fymptoms which precede the eruption run much higher—on the fourth or fifth day the eruption appears, with very little abatement of the fever—the pains, likewife, of the limbs and back continue—to which are joined pains of the gums—the pocks are redder than the common chickenpox, spread wider, and hardly rife so high, at least not in proportion to their fize—instead of one little head, or vecsile of a ferous matter, there have been from four to twelve—they go off just like the chicken-pox, and are distinguishable from the small-pox by the same marks.

Befides, the continuance of the pains and fever after the eruption, and the degree of both these, though there be not above

twenty pocks, are not observable in the small-pox.

From the similarity of the chicken, or swine, and small-pox, we may be able to account for the tales we have had of people being affected with the small-pox twice, or having them after being inoculated, and succeeding—for some may have been inoculated from the chicken, instead of the small-pox—and this is one of the strongest reasons that has induced me to insert this account, that the error may be avoided—as very little is necessary in this case to be done by medicine more than what has been be-

tore

fore recited—taking care, that if the febrile fymptoms run high, to treat it in the same manner as the small-pox under similar circumstances.

It is also worthy of observation, that these who have had the small-pox may have the chicken pox; but those who have had the chicken-pox cannot be insected again by it; though, to such as never had the distemper, it is as insectious as the small-pox.

5. SCARLET FEVER.

This takes its name from the fearlet coloured efficience upon the fkin.

This fever is inflammatory, and attended with different kinds of eruptions; whence it has been divided into two species---one called SIMPLE SCARLET FEVER---the other, SCARLET NETTLE RASH FEVER, from its cruptions being similar in appearance to

those marks left by the stinging of nettles.

DESCRIPTION. At the commencement the fymptoms attend which we find in continued fevers, among which there is no great degree of fickness; but on the fourth day the face iwells, the eruption manifests itself externally, which are red, more copious, broader, and of a much more storid colour, but not at the same time so uniform as those which attend the meazles; but they arise without any cough or watery eye, which distinguishes them from the meazles; they appear and recede two or three times during the disease; belides, the redness shews itself to be uniform, as if the skin was suffused with red wine, not breaking in clusters of pushules upon the breast as the meazles do—in three or four days it entirely ceases—the fearf-skin soon after peels off, and there continues on the furthese of the body fine bran-like scales, which are successively supplied for two or three times.

Sometimes eruptions break out on the face and rest of the body like the stinging of nettles, with much itching, which are elevated above the skin, soon increase, of a pale rose colour; sometimes with protaberances almost erysipelatous, and roughness like tetters---fometimes, on the sever remitting, they disappear; but about the evening shew themselves, with sever, and a trouble-fome hot itching---and, in three or four days, like the former, entirely cease, when extremely small scales separate from the

fkin.

CAUSES. The fame may be advanced here as in the mea-

zles. (283.)

CHARACTERISTIC SIGNS. This is an infectious inflammatory or remittent fever, of short duration, with a swelling of the face on the fourth day, attended with a slorid redness all over

the skin, with broad spots, running at last together, not elevated above the skin; or with spots like the stinging of nettles, which in three, four, or sive days disappear, occasioning the scarf skin to peel off, and covering the surface of the body with sine branny scales.

CURE. This is of the most simple nature—abstinence from animal food, keeping out of the cold air, free use of watery liquids, thin gruels, and moderate warmth whilst in bed; but should the symptoms run very high, and the pulse be very quick, full, and strong, bleeding may be necessary, once, perhaps, and the use of faline mixture, (No. 1.) or small doses of an nomials, (182.) or nitrous powders, (No. 2.) keeping the body gently open, by the use of the mildest aperients, if costive, (171, 172) (No. 3. 22 to 24.) and, after the whole is over, and the scarfikin begins to peel off, two or three dotes of gentle physic should be given. (172.) (No. 19 to 22.)

But fometimes convuitions, or great drowfinels may come on in the beginning, particularly with infants, a large billier may be applied between the shoulders, and a quieting draught, similar to No. 4, given every night, agreeable to the age and constitution of the patient—using, for common drink, milk and water, balm tea, in which may be dislolved some gum arabic, and small

portions of nitre.

Doubts have arisen about the existence of this fever, Dr. Cul-LEN having never seen it in its simple state—however, it certainly does exist, and as described by Sydenham, of which repeated experience has convinced me; nay, indeed, I have known it seize several children in the same family, and most generally at the end of summer.

There is another species arrang d here by some authors, siled the MALIGNANT SCARLET FEVER—but of that we shall take the opportunity of speaking under the head of Sore Throat, as that is one of its peculiar and distinguishing symptoms, and may probably be derived from that source.

66. MILIARY FEVER.

This receives its name from being attended with eruptions in fine and appearance like millet field, which are fometimes red, at others white—the first filled with a coloured t rum; the late with a transparent sluid, called lymph, accompanied with icarce any redness at all.

Though the existence of this sever has been doubted by many, still, it is generally now allowed, that there is a sever of this peculiar kind, originating from specific intectious particles getting

into

into the blood, and producing its effects upon the machine—yet it may, and often does arife from the injudicious management of other fevers, by treating them with too heating a regimen—hence it is confidered also symptomatic, and often joined with the small-pox, meazles, and other fevers.

Like some other of the eruptive class, this is simple and com-

plicated.

DESCRIPTION. At the commencement there is a chillness fucceeded by no extraordinary heat—the fever is mild, attended by an uneasy and copious sweating—there is no general pain, but the head appears slightly assected—no thirst—the appetite continues—the pulse depressed, and rather hard—and the usine appears healthful.

The patient foon after, on the fecond day, begins to be fearful and apprehensive, constantly six bing, from a sense of weight and tightness at the pit of the stomach—has uneasy dreams—describin of foirits—the head confused—his sweats perpetually smell sour—there are a variety of sudden and involuntary motions, and constant results such species—the pulse is smaller, and increased in quickness—and there is a certain sensation of tingling numbress in the

fingers-and the urine pale and limpid.

On the third or fourth day, feldom later, red or white eruptions break out on the neck, breatl, and back, feldom on the face, preceded by pricking pains, fometimes itching—at this period chillness and heat fucceed each other repeatedly, and the sweating becomes profuse—from thence, for about the space of thirty hours, eruptions continue to come out, which are filled with a thin serous sluid, having round their base an instammatory appearance. The symptoms now begin to be alleviated—the sweating continues, though not so profusely—the mind begins to be less oppressed—the urine puts on a higher colour—the pulse becomes more soft and regular—and about the seventh day the pustules for the most part grow dry, the fearf-skin pecking off in scales.

This is a pretty accurate description of the mild species of this fever, in which we may expect the eruptions will very foon make their appearance, when there are an uncommon dejection of spirits, watchings, confusion of the head, much oppression on the breast, with a weak quick pulse; for these are considered as the certain symptoms of their near approach.

CAUSES. Both the inducing and immediate are fimilar to what we have delivered when speaking of the meazles. (283.)

CHARACTERISTIC SIGNS. A mixed fever, attended with anxiety---dejection of foirits---frequent involuntary fighing --- frong finelling fweats--- and pricking of the fkin--fmall diffined

fpots, for the med part of a red colour, breaking out most frequently on the third or fourth day on the neck, break, and back, feldom on the face, whose tops resemble, after one or two days, very minute pullules, which continue only for a flort space of time.

CURE. The indications of cure are the same as in other eruptive severs.

Now this fever must in this place be considered of a mixed nature, (2.40.) verging rather more to the nervous than irstammatory class—however, if they attack those of strong, robust, full habits, and there should be a great degree of valentar action, bleeding may, perhaps, be necessary, but that rarely—we should rather proceed as we have directed when speaking of the simple continued sever, to the use of saime mixtures, with small doses of antimonials, (181.) (No. 6 to 9.) from whence, if the stomach should be foul, a vomiting will ensue; this will abate the sickness, take off the oppression, produce a gentle perspiration, determine the morbid matter to the skin, moderate the sebrile symptoms, and occasion, though not a less copious, a more expeditions eruption—and before that, cooling purgatives are beneficial, though not afterwards. (171, 172.) (No. 3, 22 to 24.)

Bleeding, it must be observed, is only admissible in the first slage of this disense—after varids it is so far from being of any use, that convultions and death itself are often the satal conse-

quences.

Cooling acids may be also allowed in the beginning; but when the crumion has appeared they are prejudicial—diluting, emollient, and acescent liquids may be used—and from somenting the feet and legs with topid somentations, great advantages have been derived.

But flould the conflictation be different from what we have freelised, that is, ratter debilitated than languid, and the nervous tyslem appear to be in too inactive a state, we must apply to such things as are of more cordial nature, to support and invisionate the constitution; but out of them we must select those of the milder species; for, by stimulating the habit too violently, we should prevent the separation and expulsion of the morbid matter, and be influential in occasioning it to fall upon some of the nobler parts internally.

Hence, then, such cordial volatile medicines as we have defcribed in the nervous fever, or some things similar, should be administered—and wine and water, or white wine whey may be

allowed to be drank occasionally.

Blifters thould also be applied; and as foon as one has ceased to discharge, another must be laid on, because it is observable

that the evacuation produced by them, as well as keeping up the flimulus, affords great relief; for, on the evacuation ceafing, all things wear a more favourable afpect, which are always altered for the better, on the reproduction of the difcharge.

But fometimes, instead of the convultive symptoms being mitigated after the eruption, they increase, attended with such a train of lymptoms as are indicative of greater degree of dan-

For the febrile affections grow more violent, increasing about mid-day and at night -the fleep is diffurbed with dreadful dreams -- the fweating decreases-the skin is hot and inflamed-the head is affected with pain, producing the fenfation of inward diffenfion -the face appears fuller-the tongue is dry and white-the pulfe fmall and quick-and the urine copious, thin, and wate-

On the third day of the eruption there appears a great augmentation of violence throughout—the heat is burning—the puftules fublide—the fweat ceafes—the fkin becomes rough—the tendons flart—the patients are extremely reftlefs, froward, and loquacious-they grow delirious, and are convulsed-they become thirsty—the pulse is hard and quick—and the urine copious, and like water.

The belly, which before was coslive, is now the reverse, evacuating foetid bilious stools-should any iwest return, this violence on the puttules breaking out again is mitigated -and on the fucceeding day the eruptions become more copious and larger, the former beginning now to dry-not withflanding which, about the third day the second crop creates new and fimilar diftreis, though in a milder degree than the former-a third and fourth crop will fucceed, until the last stage of declention, fimilar to what occurs in the milder species .- Still in this state of the difease there is a bilious fortid looseness, with rolling of wind in the bowels, which continues—the urine igmetimes feels hot. and appears like milk whey without any fediment.

Patients affiicted with this fever feldom recover before the fif-

teenth or twenty-first day.

This fever has been by some confidered of the inflammatory class; by others it has been called the acute malignant -- but it appears to be truly of the mixed kind, and might properly be

looked upon as a malignant miliary mixed fever.

Sometimes the progress of this fever is flower, and longer continued, the puttules not ftriking out with a proper redness, but finking down in the skin or retroceding inwardly, liable to return at fome other time, and occasioning a flow recovery; and fometimes death; but its progress is different in some degree.
This fever is apt to seize the delicate and relaxed, who have a thin and acrimonious state of sluids.

In addition to the pullular appearance above specified, the tendons start continually—a delirium and convulsions come on—the head-ach, though considerable, is not very acute—the tongue trembles—the velocity of the pulse is not so great in the eruptive stage; but the freedom and quickness are irregular; sometimes it almost intermits—the urine is various, sometimes thin or higher coloured, but oftener turbid and small in quantity—but a viscid sweat breaking out which is settid, having for its affociate some larger vesicular cruptions, and postules of size more considerable, putting on an appearance almost similar to the small, pox, alleviate these symptoms.

After this stage, now and then the patients become extremely drowfy, and have continual twitchings of the tendons, and convulsive eructations, then become stupid, forgetful, and fall into a state of lethargy; to which succeed convulsions, which

are followed flowly by fnoring and death.

This fever, should the patient recover, is apt to return about the same time in the succeeding year, and often seizes women during their lying-in—whence there is a suppression both of their milk and those discharges after child-birth, called lochia.

The mildest fort of the miliary fever generally terminates in feven, the malignant mixed in fourteen, and this in about twen-

ty-one days.

There can be little doubt of the nature of this fever, if we pay attention to the fymptoms, for they belpeak it truly nervous—hence, for the cure, we must refer to what we have said on the nervous fever, (216.) making, perhaps, a freer use of blisters, and observing a quicker succession, for the reasons advanced.

(290.)

Sometimes, added to the miliary eruptions, such a train of fymptoms will attend, as clearly to shew its disposition to be of the putrid kind; little deviating from what we have recited when speaking of putrid fever, (22:, &c.) and consequently will require similar applications—but still, though much cannot be expected from blisters in symptoms simply putrescent; yet such is the alleviation they bring in miliary eruption, that to neglect them would be an error of no trisling consequence—and, if to these we add the use of bark, mineral acids, and wine, little more can be expected to be done in this sever, as these are the principal materials from whence we can expect any considerable success.

Should

Should a loofeness come on under any of the circumstances of this fever, we must proceed in the same manner as we have before directed, taking care not to be too busy in putting a total stop to it by the use of astringents; for if that happens, we may expect a great increase of sebrile affections, which is invariably the case; we should rather attempt to solicit a flow of humours to the skin, by small doses of specacuanha, (181.) (No. 57.) and support the thrength of the patient by wine, and other generous antiputrescent cordials.

Those figns which portend a favourable conclusion are,

If consultions begin with, or precede the eruption, and, upon ceasing, the pulie becomes fost and full, the pultules fieled with ferum grow larg—if they are of the red kind, and manifest themselves with a gentle peripiration, free and easy respiration, and the pulse as above specified, the fever having remissions.

But if the fiveat should be violent and premature, particularly if the pulse at the same time should be small, they indicate mischief.

A tingling sluper or numbress in many places, shews that the morbid matter is copious; but if it is slight, attended with watery urine, sveats, and a small pulse, it not only indicates the same, but shews the virus not easily determined to the skin; hence dangerous.

Should there be great dejection of foirits, the patient become very fearful, loss all hope, rife up terrified, these are bad omens—nor is it a promising appearance if the skin does not finell from the eruption, nor be affected from the application or blifters or

cupping-glasses.

If the wead-ach goes off before the fourth day, in those of full habits particularly, it is an unfavourable fign; and a fmall pulfe, growing more so after the eruption, with tention, and quickness increasing, denotes convultions, and dissolution, or extreme danger.

If the urine is constantly watery, or changes to that from a redding colour; this affords no good fign; but it believaks a long

continuation of the difeate if it is like milk-whey.

Drops of bired from the nofe at any time befpeak great danger; and, when drawn, if it should be of a scarlet colour continually without ferum, it is a bad fign.

If, at the conclusion of the dilease, the fearf-skin peels not off at all, or only sparingly, the convulsive symptoms still continuing,

we may expect a relapse.

WITH REGARD TO THE EXUPTION, the red are more favourable than the white; and the fooner they make their appearance,

fo much the worse; for those which appear upon the third or fourth day often prove mortal on the seventh or eighth; they are less dangerous if they break out on the fixth; the later the safer; for the sooner they appear, the disease proportionably of longer continuance, and more apt to return.

After the eruption all oppressive convultive symptoms are omin-

ous, and those which follow the subliding destructive.

If the puffules are final, and very numerous, they beforek danger—nor is it a favourable fort which do not prick, but it is when they are pushing out of the skin—but if they recode, and afterwards the patient vomits, fees buily, has a rattling noise in swallowing, hiccoughs, and stammers in talking, these import extreme danger.

By how much more copious and prominent are the pullules, by fo much fooner will death make its approach, if they fubfide—and those which sometimes subfide, and sometimes appear, in-

dicate a long continuance of the disease.

§ 7. ERYSIPELAS, or SEROUS INFLAMMATORY FEVER, commonly called SAINT ANTHONY'S FIRE.

This is confidered as an inflammation of the skin, and subjacent sat, attended with an inflammatory sever, originating from an acrimonious humeur and inflamed state of the thinner part of the blood, from which nature endeavours to free herself by expelling the morbid portion from the habit, and depositing it on some external part, chiefly the skin, in broad red spots, which ercep from place to place—hence its name, from the Greek words aruo, to draw, and pelas, into the vicinity.

DESCRIPTION. It generally commences with chillness and shivering, which in a day or two are succeeded by a violent sudden reducts, and pain, attacking some part or other, chiefly the sace; and has for its associates an acrid heat, resy-coloured essociates, with great tightness of the skin, slightly swelled, which is broad and district, not circumferibed—the schille assections increase, with heat, anxiety, thirst, often also a white tongue and

firong breath.

But it is often attended with greater degrees of violence---then it begins with great thiverings, indeeded by a burning heat, acute head-ach, retching and vomiting, till the eryfipelas appears, which is fometimes deferred to the fecond or third day; when the febrile fymptoms are alleviated, and the fickness ceases, tho', not unfrequently, they continue in a flighter degree to the height ---fometimes, when the disease runs high, the fever continues,

the brain is oppressed, delirium comes on, and matters wear an

unpromising aspect.

Upon the tumid part vehicles arife, and run along the forehead hairy feelp, eye-lids, neck, forming a circle round them, which, if injudicionally treated, become gangrenous, and creates delirium --- formetimes the humour filling the pullules, and iffuing from thence, instead of being thin and serous, is thick and sheey, and forms a thick fourf or cruft, continuing fixed before they fall off, for many days.

The different frequently terminates in feven days; but fometimes it will proceed in a fimilar manner for eight, ten, or twelve dats, and at lait go off by a copious fweat, of which refileffnets, with concomitant thivering, and fome anxiety, though not much, for a small space of time, will be sometimes the forerunners; and from thence may the critical effort be prognofficated. During the progress of this complaint, the whole skin and inside of the mouth is very dry.

CAUSES. The remote or inducing are faid to be, violent mental affection, particularly anger and fear --- a fudden cooling of the body, heated before by the firong power of the fun--drinking of, or bathing in, too cold water --- a suppretion of the natural or artificial evacuations --- moit and rainy featons --- and, in fine, whatever occasions the obstruction of perspiration.

The proximate or immediate, acrimonious and heating particles derived from humours that are contaminated and retained, which

ought to be thrown out of the habit.

CHARACTERISTIC SIGNS. An inflammatory fever, for the most part, of a few days continuance, with a superficial, solitary, diffaire fivelling, of a red role colour, going off upon preffule, and returning; of an uniform foroothness, unless made rough by eruptions; and is attended with an acrid burning, or itching

CURE. As this disease, though neither infectious nor contagious, evidently arifes from some acrid humours ejected out of the mais of fluids, and collected in the onticular veffels, through which it ought to eleape out of the habit, we must be very cautious not to lower the fever too much by excessive evacuations; nor hinder the exit, or cause the retrocession when discharged upon the fain by the injudicious administration of cold or attringent an ligations; for the indications of cure are, to to regulate the moving powers, as to enable them to throw the offenfive matter out or the conditution, and prevent any retroccilion on the internal and vital parts.

Hones, therefore, must we proceed, as in other cases, confistently with the flrength of the habit. If it attacks those of ftrong full constitutions, we bleed in proportion to the strength, and give the cooling cathartics, such as purge off the serous humours in the most certain and casiest mode, as vitriolated natron, acctated tartar, Polychrest salt, Epsom salt, manna, tamarinds, crystals of tartar, jalap, &c. (171, 172.) (No. 1. 22 to 24.) and, on the intermediate days, we should give at intervals autimonials joined with nirre, acetated tartar, or the saline mixture; to which gentle aperients may be added, if necessary.

Emetics in this case have been found efficacious—mustard poultices applied to the feet, and bathing the legs and feet in warm water are very beneficial, where the head and face are affected—and, under this circumstance, bleeding and purging may be repeated, till an alleviation of the symptoms are produced.

In all our endeavous we thould attempt to promote gentle e-

vacuation by the fkin with cooling diaphoretics.

There have been different opinions with respect to local applications to the part assected; some advise mild and softening applications to the part assected, as fresh cream, the ointment of elder leaves, tepid watery somentations, or the use of the water of acetated litharge—however, the sine powder of senagreek, or wheat slour, sprinkled upon the part, and lying in bed—or, if a sluid begins to ooze out of the vesicles, chark or starch may be sprinkled on a sost cloth, and thus applied; for all repellents, whether of an aqueous or oily nature, are hurtful.

Should the fwelling be fuddenly depressed, from a retrocession of the offensive matter, attended with internal oppression and anxiety, and at the same time the pulle becomes weak and sinks, we must immediately apply blisters, and have recourse to vinous and other cordials; wine may be exhibited freely, volatile and other stimulants, which have more permanent action, such as the

nature of the circumstances require.

Sometimes this disease attacks the trunk, chest. shoulder-blades, or sides, and frequently makes its appearance lower, encucling the middle of the body, like a belt—hence called by the Greeks ZOSTER and ZONA, a belt; and by the English SHINGLES, from the Latin word cingulum, a girdle.

In this complaint little yellowish pimples, but more frequently of a livid hue, arise which are wont to corrode, like a tetter,

which species they resemble.

The fever which is the affociate of this eruption is only flight; but, should the pimples be pushed back, symptoms of greater con-

fequence present themselves.

There have been inflances where the cryfipelas has begun with shivering, heat, delirium, violent pain of the back, head, and other parts of the body, where there was no inflammation; but

upon

upon the third or fourth day, the hot burning humour was depolited in the glands under the arms, or in the groin, and there formed ableetles; or defeended into the feet, and brought on mortification; and from a retraceflion of the morbid matter, life was in the most extreme danger.

For if this matter cannot be made to re-appear, the peccant humour is deposited upon the brain or breast, and death is shortly the confequence—if the deposition happens upon the brain, delirium immediately succeeds, the visage is stufied, the eyes sparkle very quick, then follows madness, terminating fatally in lethargy; but should it be upon the lungs, the heat and anxiety is intolerable, of which no words are adequate to convey a perfect idea.

Notwithstanding these appearances, our modes of cure vary not from that which we have before described.

Though, in general, the eryfipelas very feldom comes to fappuration, still, when that is the case, it does not maturate kindly, and frequently forms disagreeable and ill-conditioned ulcors.

Sometimes a mortification will threaten, then must we apply fuch things as are calculated to stop its progress, as decoction of bank, lime-water mixel with camplior and spirits of wine, or camphorated spirits of wine, with tincture of myrch.

In the flighter kinds of eryfipelas there is no great danger; but if a violent inflammation, attended with flupor, drowfinefs, or delirium, should seize patients with an acrimonious state of

flaids, much are the confequences to be dreaded.

Should the inflammation recede or be repelled, it brings on delirium, internal inflammations, afthma, convultions and mortification; or fhould the turnid part grow livid, we may conclude the latter of these affections at hand. With respect to the pustules, the thicker and whiter the matter, the less will be the degree of danger; but should it be thin and pale, so much more in proportion will it be increased.

The PLAGUE, and that fever called PEMPHIGUS, from the Greek word pemphia, bulia, a bubble or vesicle, or BULLOUS OR VASICULARY TEVER, should be next treated on; but as I have had no experience in the former, I shall proceed to speak on the latter only as far as it has fallen under my observation, as the

disease itself feems not to be perfectly fettled by authors.

8. Pemphigus, bullous or vesiculary Fever.

This takes its name from the blifters with which it is accom-

panied breaking out on the furface of the body, of the fize of hazle nuts.

In three inflances they were attended with a fever of the continued kind, purely inflammatory; and in one is appeared to be contegious, attacking the wife of one man labouring under the difease a few days after the cruption, who would not sleep from him during his illness. It was in these cases treated as an indammatory fever, free use being made of the faline diurctics, particularly the acetated kali.

The other two had harce any febrile fymptoms, but copious exuptions filled with vellow ferum, which went off, and returned at different periods—dimeties in these two cases were used in the beginning, and, at the conclusion, lark was joined along with them, and cordials, there appearing obvious remissions of the sebrile sections, which were slight, and seemed to point out the nervous insteam to be the seas of the diverse, from the languous and lowness with which the complaint was attended, and the pulse at the same time being weak, small, irregular, and quick.

SECTION XIII.

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INFLAMMATORY DISEASES.

CHAP.

ON INFLAMMATION.

IN a former fedion we have focken of inflammatory fever, (2011) which we have faid depended upon a partial flat of the variable system and blood, the moving powers, or part of them, put into too irrong motion, and supported in the violence of their action by the peculiarity of that flate: here the art liens were peneral, produced not by, or dependent upon, any other durant.

But in this place we are to treat of local afficier, having a fever for their affociate; hence it is to be considered, not be primary, but as a fecondary difease, produced by, or dependent on, some other; consequently only a fign that for a effect of dy reigns in the habit—the first of these severs is called interaction, the second symptomatic.

Nor.

Now, in inflammation there are some particulars observable, which, on examination, will lead us to the cause, and enable us to lay down certain rules for the cure.

In a part under a state of influentiation there are more than na-

tural beat, reducts, tenfon, pain, and fuelling.

The first is produced by the broad circulating to the part with more than usual force, and being there collected in too great quantity; and wherever that is the case, there is a proportionate increase of warmth—the second is owing to the blood being puried into those vessels, which, in an healthful state, are only permitted to carry the ferous or thinner sluids strained from the inquitary mass—the there arises from a too great quantity of suids crowding into the containing vessels, by which they are distended, and their sibres distracted, which produces the fourth, or pain—and the first deduces its origin from the distension, and the shalls being too freely pushed into the cellular membrane; or exading through the coars of the vessel, by their natural parts being too permeable, from the superabundant quantity of liquids they contain.

Now all these effects may be produced by finulus of some nature applied to the parts affected, increasing the action of the vessels, which solicits the fluids to these parts too rapidly, and

produces distansion.

Hence it ap ears obvious, that there two causes are adequate to create there essects one of which asting will occasion only a slight degree or inflammation, of no long continuance—but if they both are combined then arises an inflammatory disease of greater violence and direction; in linuch as, from these two causes co-operating, the effects produced will be more vehement.

But in the parts which are most folid, or in which the vessels continue their course in a straight direction, should any inflammation arise, there will contenuently be greater degree of pain, than if it is appears in the ibservincera, or glandelar parts; because there is always a higher degree of tension in the vessels hence in sum membraneus parts, the skin, ligaments, tendons, cartilages, and bones, (21, 22, 24.) inflammations are found more acutely painful, whill in the softer parts before-mentioned, the pain is sometimes slight, and always inferior to that of the other.

But external accidents will, by producing the two captes affigured, (293.) create local inflammatory fymptoms, whill the vaccular lyttern in general shall perceive no disturbance, which will not at all be indicated by the pulse, or other sebrile affections; so that if a sever should arise, as it generally does in all confiderable inflammations, it is to be confidered as owing its origin to this cause, and is a consequence, therefore only esteemed a symptom; for excessive heat, thirst, and restlessiness, are concominants of vascular assection, and generally attend insummatory diseases, independent of any sever, except what they themselves create; whilst weakness and loss of appetite, essential symptoms attendant on primary or idiopathic (208.) severs of any continuance, are wanting, and seem to belong to assections of the nervous system.

But tome inflammations owe their origin to fever, and may be occasioned by peculiar causes; either from the elective power of morbid matter thrown into the habit, that is, a precediction for fixing on some peculiar part or parts in preference to others, as in the small-pox, meazles, gout, rheumation, &c. or from local constitutional imperfection—hence we find, different parts may become the seat of inflammation from general causes also; for if the relistance of any part is supernaturally increased, and a trimulus should be applied to them from acrid humours circulating in the mais of fluids, and fixing there, an inflammation will be the unavoidable consequence—and these very often terminate statally, should it in severs fix in some of the noblet parts; and rothere is often to be attributed in many severs the death of the patient.

If we reflect on the cause of inflammation, we shall find, that every part of the human machine, which is plentifully supplied with blood vessels interwoven in their texture, is subject to this affection—and mostly so are those parts which are liable to be exposed to external injuries; or to stimulating materials, which circulate and are buoyed up in the atmosphere; though some of the very thin membranes, the scarf-skin, hair, and nails, may be considered as exceptions.

Hence, according to the confequence of the part affected, will be the didurbance of the conftitution, and the degree of danger; and these will manifest themselves according as the use of those parts is most immediately connected with those actions of the constitution on which life is immediately dependent, by which the machine is nourished, and its parts kept in proper order, and from whence it has its power of motion, distinguished by the terms vital, natural, and animal—upon all which, acting in unifon, is constituted the welface of that machine.

With respect to the termination of inflammation, there are five modes, RESOLUTION, EXUDATION, SUPPURATION, MORTIFICATION, and SCIRRHUS.

Inflammation is confidered to terminate in RESOLUTION when, in the first inflance, the flow of blood is diverted from the part affected, the violence of valendar action allayed, and strength giv-

en to the coats of the vessels, so that they may be properly supported, and the dissipation of the load of studs which have be an collected be procured; or they may be resorbed into the habit—by EXUDATION, which occurs only in superficial inflammations on the skin, and membranes lining internal cavities or passages, or covering the different viscera, when distension of the arceries, and an enlargement of the pores of their sides takes place, by the rapidity of motion producing more than usual torce on the vessels in an inflammatory state, occasioning great increase of heat,

and expansion of the contained fluids.

In this manner frequently ends eryfipelas, by pulling forth little puffules or blitters, and freeing the veffels which are inflamed-to also in burns and wounds matter exudes, which is termed digettion; and as this comes on and continues, fo are the parts affected alleviated, and totally cured. Nature also makes use of this expedient in catarrhal and other slightly inflammatory complaints of the lungs, as well as in the gonorrhea virulenta, or clap; for all there are inperficial inflammations-by ABSCESS, or SUPPURATION, when neither of thefe processes takes place, but the violence of motion continues or increases, and the weakness of the venels still remains; then the fluids which have been collected in the cellular membrane are either too copious, or become to thick and viicid, that they cannot be absorbed and received back into the circulating fluids, nor pushed out, and thus evacuated through the pores of the fkin-amongst these another procels takes place, termed FERMENTATION, wherein the veriels. cellular membrane, and mufcular fibres are melted down, and a white thick matter is formed, called pus; but this happens chiefly in more deep feated inflammations in fome vifcous, flethy, or glandular parts -by MORTIFICATION, when the force of circulation is fo violent against the fides of the inflamed vessels, that the coats are ruptured; or when the arterial coats are fo very weak, that the blood burking into the cavities of the cellular membrane there flagnates, and quickly corrupts, forming what is called in medical language GANGRENE, or SPHACELUS; the first considered by some as mortification in its incipient state, the last when it is perfectly formed; but others, when the fkin and collular membranes are the parts affected, give it the former name; when the mufcular, the latter; when the bones, it is called ca-RIES; fo, in fact, they are all truly mortifications, though only of different parts.

When mortification takes place, there is a coffation in the part of all pain, from the destruction of the living folids; hence the protrution of blood, which becomes of a darker colour than before, or has a livid appearance; hence its stagnation and corruption, and deprivation of its natural colour—after this, a fpontaneous separation of the parts which compose it takes place, the thinner part is d even forwards towards the surface, and elevates the cuticle into blissers.

From what has been feid, we may form a judgment why mortifications are most likely to occur in those whose shuid, are in an accid state, of I people, and those of dropfical habit; because the folids are foon breken down, and many she in accidents are fatherient to produce these dangerous, and often fatal effects, which we at first observe with an unsuspicious eye, when they are attacked by inflammations of some force; for, indeed, in constitutions not labouring under these desects they rarely happen.

The last termination we had mention is, sciences, here confidered as a hard incolent tumour only, and chiefly prefents infeit in the ipongy viscera, as the lungs, inclentery, womb, and par-

ticularly the glands in various parts of the machine.

And this generally arises from the circulation in the glands, generally being too languid—hence are obstructions formed from the shids inspillating within the small capillary, or hair like tubes, and only producing vascular distension so gradually, that there is no great excels of pain, nor any violent increase of heat, so that proper power is wanting to create that process which induces suppuration; and also force sufficient to break down the vessels, and produce mortification, which in these parts are said seldem to take place, except from acrimony of the sharpest nature pouring down on the vessels of any particular gland, and being there deposited.

Innumation then may be confidered only as one cause of seirmus, which induce these tumours by imperceptible degrees, and very flow beginnings, which are attributed to some peculiar indescribable desect of the humours, terminating frequently in

cancerous affections.

They are, besides, productive of great mischief from the compression of the neighbouring parts, as palsy, impeded deglutition, barrenness, and many other complaints.

From what has been faid on this subject of inflammation, we shall be readily and forcibly struck with the most eligible modes

of termination.

The first is by resolution, the second by exudation, if the matter cauded can have a free exit out of the habit; but in these inflammatory affections which make the membrane that lines the cavity of the breast, and abdomen, or belly; or which cover the different viscera contained in them—the objects of their attack; and if the matter which from that cause exudes from their surface should remain there, a hestic sever will be the consequence,

though

though the original pain crafes, and a fresh concourse of symptoms will then succeed. But suppose neither of these terminations can be brought about, we then with for ABSEES, because only the inert folids suffer chiefly, and kildem have any permanent had effects, if they can only be permitted to clear themselves; for then the parts heal up; nor have the nerves or blood-vessels suffered any material destruction, though the last may have been distended, and suffered greatly from such distension; yet, once freed from the impelling cause, soon recover their tone, sufficiently to perform properly their constitutional action; and as for the inert solids, they are again soon supplied, by the digestive powers of the machine forming sresh materials from nutriment, in order to renew the substance lost, by the application of homogeneous particles poured into the interdices of the celullar membrane.

In all our attempts to cure inflammatory complaints, our first aim is resolution, whether the part affected be externed or internal; the former of which is obvious to ocular demonstration; the latter, by heat and pain affecting some inward part, accompanied with general sobribe affections; of which we shall speak more particularly when we come to treat on parts labouring under this complaint; at present we shall show how we attempt to bring about resolution, when any considerable inflammation calls for our affishance.

If it occurs in habits which are plethoric and firong, the pulse full and quick, and much increase of heat, we purice the tame courte as was delivered when treating on infammatory fever. § 2. Section VIII. attempting to allay the intendences of motion in the valentar fathem, and abating the excess of heat, which is the natural concomitant.

But here fometimes the complaint yields not to general bleeding, we then should have recours to local, by the application of leachers or capping glashes near the part alleded, which will very often faceced; and as there is too great a slow of study to the part, we endeavour to belien that by intest cooling purges, the 3.22 to 24.) giving facely in the intermediate times between the purges, nitrous powder. (180.2.) mixed with familities of antimonials, (180.) gentle specients, (171, 179.) and other cooling saline dimeries, (176.) applying to the parts themselves somentations, (No. 85.) with which let the part affected be tomented three or sour times a day, and continued at each time for half an hour, or longer, taking care not to apply it too hot, but only moderately warm.

Afterwards the inflamed part flould be covered with a white bread poulties, in which a fufficient quantity of ointmest of marthmallows mallows has been used—some advise a poultice of bread boiled in litharpe water, called vegeto-mineral water; others of wine-less thickened with bran; and several prefer that of bean-meal and simple oxymel, softened with oil of roses—and should the tumor and inflammation be by these means disspaced, the poultices should be changed for stupes moistened with the camphorated lotion, (No. 85., and occasionally applied to the parts.

By these means commonly resolution will take place, the humenrs collected in the part being distipated, and the remainder absorbed back into the habit, by the lymphatic system being freed sufficiently, and stimulated to a reproduction of its action

in the part affected.

But, notwithflanding our efforts, if the common fymptoms should gradually increase, such as great heat, throbbing in the part affected, suppuration will take place, and an abscels be formed—here, then, our mode of cure must be altered, and we must aim at foliciting the matter externally, and freeing the habit in a proper time, by the application of those things which promote suppuration, thin the external skin, and determine the contained matter towards the surface.

Hence poultices made of mallow leaves, boiled in milk with linfeed, or linfeed itself—boiled lily roots, or outens—the maturating cataplasm—or the gum plattler, will answer the purpose; for these, by clogging the pores of the skin, prevent the diffration of the humours, increase the heat of the contained sluids, promote the process of fermentation, and render the humours more active in dissolving, or melting down the folial parts, as well as soften the internments, and, by their stimulus, solicit the sluids to push outwards.

From these applications, then, the absects will soon be in a proper state for opening; which must be performed in the most dependent part, if the swelling is equally fort throughour, and the sin of a similar thinness; if not, where the part is softest, and the successful of the matter most perceptible; and the aperture should be made of sufficient width, in proportion to the size of the tumor, that a free egicls may be allowed for the mat-

ter.

After this, the healing of the wound in good conflictutions is follow attended with any difficulty—dry lint placed gently in the part, and that covered with the ciutanent of yellow usin, spread this upon lint or tow, are the general dreffings at fi.st; and from these fresh granulations will appear: and in time fill up the cavity occasioned by the loss of substance; but should the fore appear foul, covered at the bostons with a white or brown a corance, instead of red granulated fieth, we must apply some or those

things confidered detergent, or cleaning; as the cintment of gum elemi, of yellow refin, mixed with a proper proportion of red precipitate, or green basilicon; these will cleanse the ulcer; and then dry lint as before, and proper bandages, will in common perform a perfect cure.

But fometimes, instead of a thick well-coloured laudable matter, there will be a thin ichorous discharge, occasioned by an acrimonious state of humours, while, at the same time, there will

be febrile hectic fymptoms.

Under these circumstances, in order to produce a laudable suppuration, and take off the hestic affections, in relaxed habits, joined with an acrid state of the sluids, back is the most estications remedy; but where the discharge depends more upon the state of the sluids, in order to correct or evacuate the acrimony, a course of mercurial medicines, as the alternative mercurial pills, two of which may be taken twice a day, with one or two pints of the decostion of the woods, (No. 87, 88.) bid sairest for success.

There is a species of complaint very common belonging to this place, which here calls for our attention, and that is, a

Both, or Bile, though this feldom terminates by refolution, but commonly maturates—it is a hard circumferibed tumour, rifing to a point, hot, red, and very painful, which, maturating, may be let out, or left to burst, from whence a small portion of matter only will issue forth, in proportion to the swelling, leaving a slough behind, which is called a CORE, and must be cast off before the wound can be healed.

In its hard and painful state, we can have no expectations of discussions; our endeavours, therefore, are to be confined to hastening the suppuration, as we have before directed, (304.) or apply bean-meal and honey, which is a favourite remedy with some—when it is opened or burst, we must proceed as before under the same circumstances in abscess (304.)

But these eruptions very often originate from a depraved state of the sluids, which occasion their frequent returns, and are extremely troublesome—here we must have reference to the alterative course before recommended, (305.) which must be persisted in for some time, now and then interpoling gentle cooling purgatives.

Thus far we have spoken of those inflammations which lie superficially, and are alleviated by appearing applications; but sometimes the seat of the complaint will be too internal for them to become effectual, we then apply over the part stimulants, which have been found highly efficacious in producing resolution—indeed, where complaints have been slight, applications of hot land or falt, slimulating cataplasms, as of muttard, pellitory, horse-radish, Burgundy pitch, volatile liniments rubbed well upon the part, have been sound serviceable auxiliaries; but

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when

when the fymptoms have been more fevere, bliffers applied over the part contribute the most readily to promote resolution.

These remedies, and the scatters and emollients we have before spoken of, where the cause has been excess of the vibratory motion of the vessels dependent on some stimulus, and external remedies can be applied, have been thought necessary—or when inflammation proceeds from fractures, wounds, contustions, or such like causes, discutient somentations, (No. 85.) are most of all to be relied on—when it depends on local relaxation, or a decrease of vascular resistance, as it sometimes does, particularly in inflammations of long standing—bleeding and purging should be cautiously advised, and all emollient poultices and somentations omitted; for these, by their relaxing properties, will add to the cause—a contrary plan must be adopted, calculated to give strength and activity to the vessels, that the offending cause may be repelled.

For local applications, alum, white vitriol, acetated litharge, lapis calaminaris, and turty prepared, mixed with rofe-water, are occasionally used; as are also tincture of roses, and slight decocions of bark, and eye-waters; gargles made of these well adapted to relieve inflammatory complaints arising from a debilitated and relaxed state of the vessels—and where the general state of the habit is so relaxed, as to demand the use of tonics, or such things as invigorate the system, bark and cold bathing are

highly ufeful.

By the modes we have laid down, we shall almost always be able to conquer any common inflammation; or conduct our patient through with the greatest ease and safety, if abscess should take place—but there are some niceties to be observed, which we shall

particularize.

Fomentations should never be pushed too far; for, after taking off the violence of valcular motion, if continued, they induce a state of relaxation in the fibres, from which succeed debility and obstinate tumours—instead, therefore, in persevering in their use, when excess of vibratory motion is subdued totally, and in many cases when it is allayed, corroborants then become necessar-

IV. (No. 86.) or fomething of a fimilar nature.

With regard to abscesses, we must observe, that they all point, and the contained matter endeavours to make its way to the parts where it finds the least resistance—hence those formed in the lungs rupture internally; those in the viscera of the belly move externally—those which are deep seated, and formed under strong tendinous expansions, run along the spaces between the muscles, and appear at a considerable distance from whence they first originated.

Besides, they do not all originate from inslammation preserving its regular course; they are sometimes critical, the effect of nature freeing the constitution from some morbid matter, by throwing it out of the circulation, and depositing it in some local fituation, which is attended with the most happy confequences, admit the vital organs, or the parts of high importance in the habit escape, from its being deposited in them. Abscesses of this kind are generally preceded by some fever; and this depotion of matter is called metastasis, or translation, which occurs chiefly in parts where the veffels labour under fome uncommon weakness, from some cause which has left them in that state.

Under this circumstance, as soon as ever the skin is in a proper flate of thinnefs, the matter must be let out by incision, if it can be come at, else would it, by too long continuance, diffolve too much of the folid parts, deftroy the texture of the nerves and blood-veffels, produce a caries, or mortification of the bones, by penetrating through the membrane which covers them, and lay the foundation for a hectic fever, from the matter being taken up by the absorbent veilels, and carried into the habit.

· In cases of EXUDATION, (300.) where the surface appears only excoriated, not ulcerated, we can give the happiest affistance, when it thews itself externally by internally exhibiting such things as tend to promote resolution; and having recourse externally to fuch as are calculated to cleanie, heal up, and strengthen.

And when such is the circumstance on the membranes of the breait, of the belly, or the external furface of the vifcera, as it fometimes is, we are affored, from the appearances on diffection, where there has been no perceptible ulcerations or destruction of the folids, though matter has been found in these cavities; by early advice judiciously given, many might be faved from some of our most fatal complaints, pulmonary, and some other confumptions; for many of these arise not, in the first instance, from ulcerations or little glandular tumors in the lungs, called tubercles, but from matter exuded from membranous furfaces, which acquire a degree of acrimony, and then, by melting down the folids, cause ulcerations: and I have no doubt but by a very early application tofuch modes as we have specified for resolution, these milchiefs might be often prevented-but here the great missiortune is delay; patients, in the infancy of this complaint, by dabs, noffrums, and old family prescriptions, losing the savourable opportunity which ought to be given to the well-informed physician, applying for fuch aid only when some of the internal parts have fuffered irrecoverable injury.

Though we have before spoken of the erysipelas, or Saint Anthony's fire, which arises from a febrile cause, there is a reference fort which fometimes fucceeds external injury; and in this if the inflammation runs high, bleeding and promote are light, of fleacious; and in the intermediate times, however the supplies to ting of purgatives, I depend upon faline diuretics, (176.) and even those purgatives which I preser, are such as most powerfully evacuate the serous humours, such as vitriolated natron, Rochelle salt,

regenerated tartar, jalap, fyrup of buckthorn, &c.

The external applications in these cases should be such as will expel the obstructed shuids through the pores of the skin; hence diluent formentations are recommended, decoction of linseed, and white poppy heads, with elder and chamomile slowers, and a proper proportion of soap liniment, one ounce and a half to two ounces to a quart, whilst there is no break upon the skin—chalk, or fine flour, spread upon the part, and confined with a sine rag—and lotions of the vegeto-mineral water are thought by some highly serviceable, where resolution is the aim.

But when pimples or painful blifters make their appearance, equal parts of time-water, oil, vinegar, and comphorated spirit of wine, form an esticacious composition to lay on the inslamed part, by means of a rag dipped into, and well loaded with it—or the ointment called unguentum tripharmacum, or that of accetated cerufs, have been considered as proper applications.

We must now proceed to speak on MORTIFICATION, another termination of inflammation, (301.) which generally proceeds in the following manner. At first the swelled part begins at the point to grow yellow, the pain is mitigated, and a dingy colour comes on; the skin is slabby and fost, retaining the impression made by a sugger upon it, it loses almost all sentation, and grows livid—a tumid elevation of the part is perceived, which distures itself around—there appears pushules of a thin yellowish aerimonious liquid, which are black at their basis—then the skin and sarts underneath corrupt, become dead, black, losing all fensation, and dissolve into a section stinking sanies—the mortification creeps onwards, and seizes the neighbouring parts—at length shivering, sever, cold sweats, small and weak pulie, and fainting, bespeak the approach of death.

An the beginning, when the fource of this mischief has been external injury, and there is much strength of constitution, indicated by a full, hard, quick pulie, high degrees of heat, pain, and dryness, the cooling method is to be pursued, as if resolution was to be brought about; and though in this we cannot hope to succeed, we are warranted in this mode of procedure, by the extreme violence of the symptoms, with intent to bring on a state of suppuration, by checking the vehemence of the circulation, and preventing the vessels from being ruptured—besides, exude in would be savoured from the continuance of relaxing

and emollient fomentations.

But mortifications arife from very different fources, and affect

fore, whose blood is in a thin, acrid, putrescent state, which will be indicated by debility of the pulse, loss of strength, lowness of spirits, feetid thin acrimonious discharges, and, should blood be taken, by its texture being very weak, we must have recousse to invigorating and cordial remedies; as bark, wine, mineral acids, and fuch like, in order to prevent the access of gangrene, and produce a separation of the part affected; and, in cases of great pain, opiates have been advifed with very fortunate effects; indeed, whether the cause is internal or external, the free use of opium is directed, and confidered as the greatest internal cordial known-as an external application, the antiputrescent lotion, (No. 90.) is recommended to be applied frequently, warm, as it is also stimulant and digestive-cataplasms of cummin-seed, and the carrot poultice, are much approved; but if emollients are mixed with antifeptics, (192.) they are faid to affift in the feparation of the putrid parts, and stopping mortification.

The last termination of inflammation is SCIRRHUS, (302.) or indolent tumor, which arises from obstructions forming in some of the glandular parts, as before described, where either no suppuration takes place, or it it does, it is in no small a degree, that it has not power to melt down the folids sufficiently to remove the industrion—or it may be brought on by the too long use of warm somentations, soliciting too free and long continued flux of humours, relaxing the vessels of the parts, hence occasioning

hard fwellings, which are not eafily removed.

Now their iwellings which we here consider are totally free from all a rimony of any peculiar nature, and, as the sluids are in a found state, it is often the most eligible practice not to interfere by any applications—because in young subjects they will very often gradually wear away; in older ones continue generally without creating any uneasiness or inconvenience—but should the hardness be so considerable as to require particular attention, warm vapour or steam directed to, and confined to act upon the part affected, is one of the most essectious applications in this case.

Sometimes these tumors are soft and slabby, then frictions, and well adapted bandages, where they can be applied, are useful; or letting cold water fall from some height upon the part, or

pumping upon it, foems best calculated to succeed.

Thus far has it been necessary to premise, before we enter on the instammation of the different parts, wherein the treatment of the instammatory symptoms will be nearly similar; but there will be some deviation necessary on account of the parts affected —for the INFLAMMATION OF THE BRAIN will require a different treatment from that of the eye—of the Eye from that of

the

the lungs—of the Lungs from that of the intestines, &c. to swhich we shall now proceed.

CHAP. II.

INFLAMMATIONS OF THE HEAD AND NECK.

1. PHRENITIS, INFLAMMATION OF THE BRAIN.

THIS is so called from the Greek word phren, mens the mind;

because the brain is supposed to be its seat.

DESCRIPTION. The fymptoms at the onset are, with respect to the general affections, similar to what occur in the beginning of the inflammatory fever, only the head feems to be more violently affected; for in this there is pain and pullation of the head, with a founding noise, a ringing in the ears, and diffurbed fleep-the eyes are painful and inflamed, almost always shunning the light—the countenance is puffed, the hearing acute, and the patient is irritated from the flightest noise—the pulse, for the most part, is weak, sometimes hard, always low and depressed-the urine looks pale like water-and continued watchings are protracted to the eighth day—the pulsation of the carotid arteries is perceptible—fometimes blood flows from the nofe—there is great debility, anxiety, and frequent fighing—the tongue is fometimes white and moilt, fometimes black and drythe patients are uncommonly irascible, labouring under a ferocious delirium and convulfions.

CAUSES. The remote or inducing, fevere drinking of inebriating liquids, particularly ardent fpirits—watchings, long exposure to the scorching rays of the sun, particularly if the head is uncovered—violent rage—too deep and long continued thinking—excessive grief—violent love—a suppression of the piles, and those discharges in women after child-birth, called lochia.

The proximate or immediate CAUSES, a true inflammation of the membranes of the brain, or a congestion of blood in the bo-

dy of the brain, or both conjointly.

CHARACTERISTIC SIGNS. An acute febrile affection, attended with pain of the head—redness of the face and eyes—incapability of hearing the light or found—perpetual watching—a violent delirium, or delirium attended with some degree of apparent drowsiness.

This

This disease terminates between the seventh and sourteenth day, by resolution—homorrhage from the nose; in women, by a slow of the menses—looseness, or deposition of a copious sediment in the urine;—but should not some of these occur, suppuration or mortification is the consequence: it often, though, degenerates into other diseases, as mania, i. e. delirium or madness without sever, lethargy, melancholy, or idiotism—when people recover, they will be assected a long time with giddiness, weakness and pain of the eyes, quickness of hearing, and a heaviness of the head.

We should be particularly careful in distinguishing this discase from the delirium, that common attendant in many severs: and this knowledge may be acquired by observing, that in this species the delirium comes on first, and is perceptible and violent before there is any great degree of sever—in other cases it is consequent to sever which has continued for some days before the delirium is manifest; and the degree of phrenzy is correspondent to the degree of sever; but in the true inflammation of the brain the degree of sever is nearly adequate to the delirium, which is equal to what we meet with in real madness, from which the inflammation of the brain is scarcely to be distinguished, but by the shortness of the continuance; as in the space of a few days it must either inevitably terminate in recovery or death.

This difease is either idiopathic, (299.) or symptomatic, (299.)—the first, wherein the head is primarily affected, rarely appears in temperate climates—but the fecond very often occurs, and most frequently about the criss of fevers; and is generally attended with chillness, tremor of the joints, distension about the pit of the stomach, coldness of the extremities, thin urine discharged too copiously, or too sparingly; and most commonly, if violent, proves mortal, from the constitution being reduced to a

state of great weakness from the preceding disease.

From the great consequence of which the brain is to the life of man, this becomes a most dangerous disease, from that part being affected—men experience greater degrees of violence in this disease, and tecover with more dissipationally than women—the more the patients are, and the more they recede, from their natural state and disposition, the greater is the danger—bleeding at the note is a good omen; but if the phrenzy changes into a lethargy, it is bad; and total loss of, or a trembling voice, convulsions, hiccorgh, may be looked on as extremely unfavourable symptoms.

CURE. In a case so desperate as this, without we can diminish the violent force of the circulating sluids against the sides of the vessels, remove the obstruction, and take off the congestion, and that soon, from the delicate texture of the brain, it must end

fatally

fatally—our applications, therefore, must not only be powerful in themselves, but most expeditionally administered, with intent to divert the flow of blood from the head, at the same time attempting to allay the violence of vascular action, and strengthen the vessels of the part affected.

For these purposes, therefore, we should have recourse to bleeding-fome advise in an erest posture, copiously, and from a large orifice, till the patient faints, giving preference to the large vein of the neck, called jugular, or the temporal artery; or, where the menies are obstructed, to the veins of the feet; and this must be repeated according as the firength of the patient will permit -if the pulse, as fometimes happens, will not allow this, parricularly after the third day, then cupping-glasses or leeches must be applied to the temples, or the internal part of the nostrils must be scarified, and blood taken away in one of these modes-and immediately after fmart purges of the cooling kind, (171, 172.) must be administered, or glysters—the lower extremities should be bathed in warm water, or the feet and legs wrapped up in warm moift cloths or flannels-the head should be shaved, and washed with cold vinegar, or cold water poured upon it; nay, fome advise even the application of ice; and after proper evacuations, when there appears a reduction of strength, a blifter may be applied to the head-large doses of nitre, mixed with a little camphor, may be given every four or five hours, or fixed fal ammoniac, (176.) or CLUTTON's febrifuge spirit, so called, may be mixed freely with the jatient's drink, which should be of the diluting and watery kind-muffard poultices may be applied to the foles of the feet; and, in fine, every thing which can folicit the blood from the head, and abate the violent motion of the fluids.

The bedchambers should be large, dark, and cool—every thing should be kept extremely quiet; the posture should be as erect as possible, or, at least, the patient should lie with his head elevated.

If matters, by the means here made use of, take not a favourable turn within the first four or seven days, there comes on a drowfiness, and propensity to sleep, which soon puts a period to

the unhappy patient's existence.

Sometimes we find it goes off by the efforts of nature producing some evacuation, (311.) which, should they come on before the vessels of the brain suffer much from being over distended, the termination of the disease may be very fortunate—if not till the vessels have been much injured, the senses seldom return perfectly to their original standard—nay, some assum, it ends in stupidity, and madness, which are rarely carabic.

§ 2. OTITIS, or OTALGIA—from the Greek words, ous, autis, the ear; and algos, dolor, pain;—

INFLAMMATION OF THE EAR.

By this is meant an inflammatory flate of the internal parts of the ear, whose membrares, from their being well flored with nerves, are extremely feasible; and from being attached to bones,

feel pain very acutely.

DE-CAN FION. An inflammation of the more internal parts, attended in common with great pain, and that published, or throbbing head-ach, and forms fight leverifines; formetimes when is affects in a more severe degree, the fever is stronger—the head

more painful, accompanied with delirium.

CALLERS, remote and inducing. Any extraneous body infimuting itself into the ear, that has the power of exerting any filmulus—acrid lapmours falling upon the membranes of the ear—obstructed performation—currents of cold air pouring forcibly into the car, through narrow crevices, or cracks in deers or windows.

The provincte, or immediate, are fimilar to what we have before specified, and which occurs in all inflammation, where the parts are in a flate of predisposition, sufficient to feel the effects of those arling oruses which are more remote—indeed the proximate and immediate causes of these complaints are so exactly si-

milar, that we thall have no occasion to freeity them.

CURT. When the affections are flight, a little warm oil, with a few dueps of the tincture of opium, may be dropped into the car—or a decoclion of popty heads may be injected—these will sometimes take of the complaint when trifling:—but should it be more severe, bleeding and purging may be require—applying also cupping places, or lecones behind the curs, and blisters—bathing the feet also in warm water—and when the pain is violent, an opict, No. 4, may be administered at bed-time.

But should the throughing pain, not withstanding our efforts, still continue, supportation will be the contequence; which we made endeavour to protect by warm positives applied externative; and wait for the bursting of the ablest—which, when it happens, we must endeavour to keep the alcerated particlean, by injection of warm water in which is disloved a little feap—or of barley water, to their ounces of which ad a—one ounce and a half of honey or roles, and half an ounce of timeture of my or this will asset the duch as of matter, keep the alcerated parts clean, and expedite their nealing.

K T

\$ 3. OPHTHALMIA—from the Greek word ophthalmos, oculus, the eye; - I and so not to kindle only a stable information of the control of the con

INFLAMMATION OF THE EYE: 11 1/ 8

This disease is so very obvious to every common observer, that there seems hance a necessity for putting down the appearances, in order to distinguish it; however, so preserve the regularity we have adopted in other complaints, we shall give of it a concise view.

DESCRIPTION. This complaint at the beginning is attended with heat, redreft, and twelling, or fulness of the eye-and often feels as if a particle of fand, or a finall fly, had got into it, end there fixed—the eye is painful, tears flow, which appear hot and feriding- the angles of the eye are often filled with a vifeid yeilowith matter, particularly after freeping-the light is weak, and all light is off whive -in the more few re fo cies, the pain is very acute-the pulle quick and rather hard-the light intolerable-there is a perceptible pullation of the arteries-and the eyelids, with the circumfacent parts, fwell; but when it is still more fevere, the membrane covering the white of the eye elevates itfelf above the darker coloured part, called cornea, from its horny appearance-and the patients complain of flies flying before them, and feel other unpleafant fentations of this kind, the effect of imagination .- Afterwards fucceed suppurations, spilltude, of the humours-fpots upon, and thickness of the cornea itself.

From this account there appears to arise three material confilerations: First, whether it is flight, affecting only the veilels of the outward membrane of the eye;—SECOND, whether it is very feve; e, extending itself to the eyelids, and their edges, called tarfi;—THIRD, whether it is extremely violent, fixing its feat in the internal veilels of the eye itself, and in those of the membrane called retina, at the bottom of the eye, which is confidented the feat of vision; in which case it is attended with high degree of lever, intolorable pain, and often delirium. For these diffication; will make some alterations in our modes of cure.

CASSVS. The remote, or inducing, are—external injuries occasioned by blows—dust petting into the eye, or other stimulating bodies—a free admission of cold wind—sweats suddenly suppressed—looking frequently or long at the fire, the fun, or other strong glaring colours—exposure to the cold air of the morning and evening, which succeeds hot and sun-shiny weather—actid and metalline sames—couching, or extracting a cataract. It also may proceed from internal causes—such as the suppression of talutary evacuations—shamors repelled—drying up of issues—

fetons

fetons---fitulas---or ulcers---indigeflion---too long watchings---night fludies---other diffafes of the eyes---fmall-pox---and mea-zles.

CHARACTERISTIC SIGNS. Redness, and pain in the

eye---with incapability of bearing the light.

CURE. With regard to this we are to take into our account the immediate caute—whether it is an increased irritability in the vessels; or a want of proper residence in their coars; or they both co-operate together—for, according to the acting cause, to should our applications differ; as what would in one case produce a good effect, would in the other be attended with dangerous, or at least disagreeable effects.

In the flighter degrees of this complaint, the cure is perfectly eafy, as little more is requifite than external applications—walning the eyes with warm milk and water, mixed with a little brandy—conferve of roles—routed apples, and fome fuch reme-

dies.

But in more fevere affections, if the habit is full, general bleeding and purgetives are necessary, with a cooling regimen .--to which, if the disorder does not soon give way, not less than three leeches should be applied, as near each other as possible, in the hollow of the temple nearest the eye affected---opening the jugular vein is often serv coable; -- bleeding in the eye itself has by some been strongly recommended; but the operation is apt to irritate, and is only necessary when the insummation is kept up by a speek in the eye, which is fed by one or more blood vessels, then they may be divided.

In obthinate cates, keeping the head flaved is highly proper, and applying billiers about the five of half a crown over the crifices made by the leeches, is ufetul;—bathing the feet in

warm water should not be neglected.

With respect to the local applications, the shief, and most useful, is the tiactura Thebaica of the London Pharmacopæia as an opiate, joined with some stimulant, for vithout, it will not answer;—at first the anodyne eye-water (No. 91.) may be applied to the eye two or three times a day. In slight cases, this is often sufficient; and, indeed, in the more obstinate, two or three drops of the tincture may be dropt into the eye two or three times a day.—The body should be kept cool by proper diet and medicines, and the eyes free from any thing that can irritate them.

In some cases, though, where the inflammation has been long continued, its duration will be apparently owing to want of proper resistance in the vessels—hence must recourse be had to such medicines as give strength and activity to them; still some cau-

tion is here accessive—they should only be applied when the eye is in the weakest state of inflammation, which generally happens in the morning, after the eye has been kept some time free from any irritating cause.—In these cases the congulum aluminosum of the old London Dispensatory may be mixed with a common position, and applied to the eye associated for three or sour hours in a morning—and in the remainder of the day, tincture of opinm—afterwards as the eye gets strength the vitriolic solution, No. 92, may be used.

By this method I have feen inflammations of the eyes of long flanding, cured, which had refiled every other mode---the quantity of the vitriol may be gradually increased to 10 or 12

grains.

In all inflammations of the eyes arising from common causes, one of the modes above specified will generally succeed---only we should be careful not to use any of the more stimulant applications, till the inflammation begins to relax of its violence, for it they are used too soon, they will rather increase, than sub-

due the malady.

But fometimes this dileafe will be occasioned, and supported by force morbid humour in the habit---as that called ferophulous---venereal---or some other which we are incapable of discovering.---In the two tormer cases, we must make use of those remedies pointed out in the treatment of those complaints---in the latter, a course of alteratives in which mercury has the greatest share, will be most essentials. Under these circumstances I have known small doses of calomel, with antimonial powder and that a b, or jaiap, given twice a day, and wathed down with the decostion of the woods, interposing proper purgative, once in a week or ten days, be very successful---and greatly asset the application of external remedies.

In obdinate cates, where blifters have been ineffectual---iffues, and fetons in the neck, have been recommended;---or having the lobes of the ears pierced, and exciting a diffusige by fkains of filk being passed through them in the manner of fetons.

The gluing of the eyelids together, faculd be prevented by infinuating a little mild uncludes medicine between them, be-

fore the patient goes to rest.

Notwithslanding what has been said respecting insummation of the eyes resulting from a relaxation, or arended by that state of the vessels, it is sometimes owing to intensents of motion—which is discoverable from the great heat,—drym/s, and very severe pain,—which are concomitants;—then bathing the eye with warm milk and water, in which poppy heads have been boiled, asterwards applying a positive of this decoction thickened.

thickened with crumbs of bread, inclosed in thin cambrick, will be necessary. But in order to prevent the accession of these complaints in those who are subject to the returns, besides guarding against the remote causes (315.) issues have been recommended—taking away blood about the equinoxes—purging occasionally—a cooling diet—avoiding reading in the night, particularly small print—or, in sine, doing any thing, that can too much satigue the eyes.

§ 4. QUINSY.

An abbreviation of the word from the French fquinancie, fore throat---the Greeks term it, CYNANCHE, from kuon, canis, a dog, and anko, strangula, strangulate---because patients afflicted with this complaint were supposed, in the difficulty of perspiration, to use their tongues like a dog---and by the Latins ANGINA, from the Greek word anko.

This is an acute affection of the throat, divided into two species---the inflammatory, and malignant---of the first of these some authors form varieties, according to the different parts they affect.

1. TONSILLARY QUINSY.

Because it affects the membrane on the superior parts of the throat, particularly the tongits, with tumor and redness.

2. TRACHEAL.

In Scotland called GRGUP, because it assects the muscles of the trachea, or membrane covering its upper part, the windpipe; in which disease in inspiration the voice is rattling and house, there is a shrill cough, with no apparent tumor, and a little difficulty of swallowing.

3. PHARYNGEAL.

Because the pharyus, in the lower part particularly of the fauces, is affected with redness, the swallowing is very difficult and painful, though perspiration is sufficiently casy.

4. PAROTODEAL.

. In England called MUMPS, in Scotland, BRANKS, because

there is a confiderable fwelling of the parotid and maxillary glands, respiration and deglutition slightly disturbed.

All thefe are attended with an inflammatory fever, though

the latt, or the parotideal, is of a very mild fort.

The fecond frecies is called the TONSILLARY MALIGNANT, OR ULCEROUS QUINTY, because it assess the fame parts as the inflammatory tonfillary, (see above.) with tumor, redness, and with white or grey coloured floughs, spreading and covering ulcers, attended with a nervous or putrid sever, and red efflorescences.—hence stilled by some the malignant scarlet sever. (288.)

Of all-these we shall proceed to treat in the order they are set

down---and, first,

THE TONSILLARY INTLAMMATORY QUINSY, OR COMMON SORE THROAT.

DESCRIPTION. In this the tonfils and superior part of the fauces are assected—in general the inflammation begins in one tonfil, then spreads acress the palate, seizes the uvula, and other tonfil.

Though confiderable pain affends the action of swallowing if only one fide of the fauces is affected, yet can that action be performed tolerably well; but the pain becomes intolerably severe when both fides are affected, and swallowing is performed with extreme difficulty; indeed, the pain is sometimes so great as, in delicate and irritable habits, to occasion convulsions.

It may, however, appear fingular, that more pain should be felt in swallowing liquids than solids; but this is the fact, because a greater portion of muscular fibres are employed in the declution of the former than the latter.

So long as the inflammation confines itself to the parts above described there is little danger, more particularly if the neck appears pussed up, for this seems to indicate less danger of sufficcation, and is therefore confidered a favourable omen.

But if the inflammation extends itself to the muscles of the larynx, in that degree as to impede the opening of the glottis, or superior part of the windpipe, the complaint becomes extremely precarious, because then there will be great apprehension of sufficient.

Or fnould the brain or lungs be affected by a translation of the morbid matter, from the one occasioning violent head-ach and firong delinium; and from the other oppression of the chest and difficulty of breathing. If to what we have here said we add the tebrile symptoms which commonly attend insammation, and the

appear-

apppearances in the throat, (315.) we cannot avoid diffinguishing the complaints and the throat of the decrease the complaints and the throat of the complaints of the complaints.

cAUSES. The remote or inducing are, perspiration obstructed, particularly in the neck—the admission of cold air into the fauces, especially if it rushes rapidly into the mouth, and strikes them forcibly—violent and long continued singing—shouting, or too severe exercise of the part—any acrid stimulating particles, or hard pungent bodies adhering to the parts—drinking too cold water—suppressed or impeded evacuations—or a peculiar state of the air rendering this complaint epidemical.

The proximate or immediate, fimilar to those of other inflamma-

tory complaints.

CHARACTERISTIC SIGNS. Redness, tumor, hear, of the tonsils, rendering deglutition painful, attended with febrile

inflammatory fymptoms.

CURE. The same rules are to be observed as in other inflammations, respecting the general treatment, such as bleeding, purging, cooling, diluting medicines, and regimen. With regard to local application, it is of use to apply stapes of slannel dipped in spirits of sal ammoniac, or hartshorn, mixed with a little oil, and applied to the throat in the slighter cases—in the more severe, btisters; for these solicit the matter from the internal to the external parts.

Gargles also of sage tea and vinegar, or insusons of elder and chamomile flowers, in equal parts of water and vinegar, applying the steams of this to the throat; they are of insure use, and give great relief, savouring the exudation and dislipation of the

obstructing fluids.

After the imflammation is abated, gargles more aftringent should be used, made of tindure of reses, or red port, with the vitriolic or muriatic acid, sweetened with honey---alio to them may be added a small portion of alum, or weak decoctions of bark, with the acids above-mentioned, or alum; for these will give strength to the fibres, which, from over distrution, have been weakened and relaxed---and, for gargling the throat, perhaps, springes had better be made use of, both on account of case and certainty in reaching the part associated.

By this mode the cure in common will be completed within the course of sour or sive days; but if within this time the inflammatory symptoms should not become milder, and the inflammation itself subside, then will little doubt remain of suppuration taking place; discoverable by the following startoms of Abserts forming: the febrile symptoms continue though in a slighter degree, the pulse grows suffer, the should colour of the inflamed part abates.

abates, the pain becomes more bearuble, and Slight Shiverings come

on frequently.

Here we must endeavour to premote suppuration as fast as possible, by applying maturating positive e to the threat externally; and internally, decoction of fg;; or infasion of linfeed should be drank very warm, and swallowed gradually; carefully, at the same time, watching for the appearance of absects, which generally discovers itself in a tew days, by a whitish tumor, and suctuation of a shull to the touch—should not this burst of itself in a few days, which, though, is generally the ease, it should be opened as early as may be, and detergent gargles of banks, water, honey of roses, vinegar, and tincture of myrrh, may be had recourse to. (No. 93)

When the abice's is perceptible to the fight, and within the reach of external remedies, this method must be pursued; but formetimes it forms itself to low down as not to be within the reach of instruments; we must therefore wait for its bursting; and should, before this happens, the tumor be so large as to prevent swallowing, the justient must be supported by broth or mill glysters; and blisters and stimulant positives should be applied to the throat externally, in order to solicit the morbid matter

outwardly.

The confequences in these cases is very rarely satal, when there is a suppuration; however alarming may be the appear-

ances, or tedious the process.

But, now and then, this complaint arifes from the want of proper resistance in the vestels of those parts, discoverable by the relexed state of the folids, manifested by weaker degrees of heat and pain, and more light inflammatory appearances respecting the cell or of the parts as they are less red, than in the former.

In these cases copious bleeding is rarely necessary; purgatives are more to be depended upon, and the application of simulants and blisters locally and externally—gargies thould be of the purgent kind, made of the infestion of horse-radish, or mustaid feed, or tome other of the purgent strandants, (145, 146.) for these attenuate the viscid mucus which clogs the fossicles or cells of the tonsils, and other contiguous glandular parts, that crowd the fauces, by stimulating the versus so an increase of proper action on their stagnating macus; for these fore throats are considered as pixuitous.

In habits like these of the phlegmatic kind, (60) absorbes seldom arise; but should that be the case, they require the same mode of treatment as above specified; to which must be added tonic and corroborant medicines internally, as well as externally, in order to give tone and sirmness to the vessels after proper de-

tergents,

tergents, and add firength to the conflitution, as bark, fleel, with

a generous and nutritious diet.

The fame made must be purfued in the SECOND and THIRD SPECIES in their inflummatory thate; to which if the difeafe does not yield, and there is reason to be afraid of sufficiation, from the high degree of inflammation of the muli les of the larynx, preventing proper refriration, recourse must be had to bronchotomy. or opening the windpipe, though not without extreme necessity. and then it must be performed by the hands of the most skilful furgeon, for it is attended with the utmoft danger.

But fometimes the inflammation not only attacks the membrane lining the up, or part of the trachea, but extends itself down on the interior forface into the longs, which furface is found, on defliction, to be covered over and the pathage for the air almost filled up with a thick flough, having a fibrous membrane-like any entance, which is concluded to be the viscid remains of mucus thrown off by exudation from the inflamed furfaces-and is dir weral le by a pecui or faille is of the voice, like the crowing of the coek, with a cough, but no fick neis, nor at first much difficulty of breathing.

This difease is at certain times epidemic, and feizes chiefly children, and runs to its fatal termination to extremely raid. that little chance is given to any medical applications, from the want of time-immediate vomiting, and bliftering the throat, are the whole we can, perhaps, depend upon for any the least profpect of fuccess. This variety of the teached quinto is called the

CROUP, and is more frequent in So tland than eliewhere.

The FOURTH SPECIES, or the PAROTIPEAL Q THEY, or MUMPS. called allo MAXILLARY, from its afficing the maxilly as well as the parotid glands, and also the mulcles and ligaments which raile up and connect the upper with the lower jaw, from which is necessarily felt severe pain in opening the mouth,

In this the fweiling is generally external, increasing fo much in a few days, particularly in the lower part of the face, and under the chin, as almost to obliterate the seatures, though the at-

tendant fever is but flight.

Saline purgatives, with nitrous medicines, moderate bleeding. and external Himulants, chiefly volatile liniments, are all that are required, keeping at the fame time the head and face warm, and free from external cold.

But there is a fingular peculiarity now and then attending this complaint; for formetimes on the swelling of the glands subliding. a fimilar affection of the refficies of men takes place, and of the breafts in women-however, no alteration in the cure is required; 322 MUMPS.

for it has been observed, that to the same it yielded, nor were the parts, particularly the telles, ever known to suppurate.

Sometimes a hardness will remain in the parotid and maxillary glands; these yield to small dose, of calemal, and gentle purging; sometimes the application of the quicklilver ointment hath been necessary.

5. Tonshlary malignant ulgerous Sore Throat, (318.) or malignant Scarlet Fever.

This has often raged in England, and appears to be a quinfy, or fore throat, of a more malignant nature, attended with a remittent fever, verging more to the putrefeent than inflammatory fort; or running very rapidly from the former into the latter.

This difease oftener attacks, and with a greater degree of violence, infants and young children than adults; girls than boys; the infirm than those in the vigour of health; those of a pale, wan complexion, and relaxed habit, with an acrimonious flate of fluids, than the robust and fanguineous; and appears particu-

larly in autumn, preceded by a hot fummer.

DESCRIPTION. In its commencement, it first seizes the patient with chillness, languer, fickness, and extreme oppression at the pit of the flomach-great dejection of spirits-very fudden weakness -great beaviness on the breast-and faintness-these are succeeded by extreme beat, nausea, vomiting, with soreness of the threatfometimes the affection of the throat makes the first appearance -in general the pulse is frequent, fmall, and fluttering, though fometimes depreffed, and undulating-the tongue meifl, especially towards the root—the eyes heavy, reddish, and watery—the countenance frequently full, flushed, and bloated, though now and then pale and tunk—the breathing quick and laborious—the skin, though extremely hot, not perfectly dry-the urine commonly pale, thin, and crude; in many adults, however, it will be made in small quantities, high coloured, or turbid like whey-the throat fore and inflamed, exhibiting a fhining redness, of a deeper colour than in common inflammatory fore throats, and having a puffy appearance which covered the tonfils, and spread over the fauces, the tenfils at the same time ulcerated, and in some degree, though not greatly, enlarged—a delirium fometimes comes on in the day-time, the symptoms appearing slight; yet is there in the night a comiderable increase of violence, and that through the whole course of the disease—the fwallowing is difficult, and more fo on swallowing the saliva only, than of any fiquid or soft diet.

On the third day, or thereabouts, an efflorescence on the skin generally appears, but without any alleviation of the diffreshing

fymptoms; indeed, they frequently increase, and, added to them there is often a purging—at this time the patient begins to throw about his arms and less, lying in a flate of great inquietude; or he becomes drowfy—there now comes on great profiration of firength—the conflictational powers fail—fwallowing grows more difficult—the breathing more laborious—and before the fixth day the patient expires in a flate of suffocation.

CAUSES. The remote and inducing, as in all difeases arising from any specific insection, or contagion, is a predisposition in the habit to receive and feel the effects of the morbid matter, which we conceive to be of a peculiar nature capable of creating the disease, communicated from the air, or bodies before assected, which constitutes the proximate or immediate cause; for frequently the disease, either from the breath, or contaminated matter spit up, will attack the attendants, and a whole family—a

fron proof that the disease is infectious and contagious.

CHARACTERISTIC SIGNS. (See page 319.) And here it is of the utmost consequence to distinguish this from the simply inflammatory fore throat, which may be done by the looteness and vomiting—the pussy and dark-coloured redness attending the swelling—from the fætid ulcers of the throat, covered with a white slough—from the hearteness of the voice—the slight delirium coming on so soon—and from the sudden and great prostration of strength—because much depends upon the mode of cure first adopted—for what will be the means of laying a soundation of a cure in the simple instammatory, would be the cause of death in the malignant quinty.

The reducts of the tumefied parts, brightness of the eyes, no great degrees of debility and fainting, the flough being white, and the florid appearance of the eruption on the flin, are favourable omens.

But if the debility should be violent; if the ulcers are ash-co-loured, black, or livid; if there should be a diarrhora, rigor, weak and small pulse; the body put on a cadaverous appearance; the eyes lose their splendour; the eruptions disappear, or become livid; and particularly if the nose bleeds—the worst must be expected.

CURE. The indications of cure are fimilar to those of putrid fever, (223, &c.) to which we must add, the healing of the

ulcers.

In the most malignant kind, little can be expected from our

endeavours, the progress to diffolution is so rapid.

In the more mild fort, whatever may have been faid by men whose medical characters entitle them to attention, with respect to bleeding, nothing except the most distressing inflammatory symptoms, which rarely occur but at the commencement, can

Ss'2 author

authorife the practice: for I have generally observed, that those who have undergone the operation in the species of sever, ran

very quickly into extreme danger, or died.

If, then, at the onfet, there appear to be firong valcular action, faline mixtures, with hight antimonials, and acid gargies, flightly aftringent, with occasional gentle aperions, or emillient glyflers, if necessary, after the administration of a vomit, may be perfitted in, till fymproms of patrefeency make their appearance, which will from be the cale—then we must rely on builtering under the throat, and antifepties, as bank, mineral acids, are feent drinks, and vinous cordials, for relief. See Petrin Tever, (223.) where we have treated on these remedies, except gargles, which may be made as directed No. 6.1.

Or the vehicle to the other ingredients may be pectoral decection; the more antiteptic ones may be made of decections of bark, with tincture of myrrh, red port, and the mineral acid fome advice a gargle made of honey, barley-water, and spirit of fea falt—and after the fever has remitted, drying the uleer with

quick-lime ley mixed with honey.

સ્કુલનાનાના નાનનાનાનાનાનાનાનાનાનાનું કૃષ્ટિકારા કાંગ્રામાં કાર્યો કૃષ્ટિકારા કર્યો

C H A P. II

INFLAMMATIONS OF THE BREAST.

f 1. Pleurisy, or inflammation of the Pliura.

THIS is an affection of that membrane called PLEURA, from the Greek word piece, plenus, full, which lines the infide of the cheft, covering the ribs internally, and intercottal mufcles (33.) and lungs, (28.) and forming the mediaftinum and pericandium. (28.) attended with an acute fever, great pain, and diffi-

culty of breathing.

It is divided into the TRUE PLEURISY, when the membrane itself is affected—into the SPURIOUS, when the intercostal muscles; and also into MOIST, when expectoration is an associate; and DRY, when there is no such appearance—indeed, at the onset it puts on generally the appearance of the latter, and of the former in its progress, it not conquered by resolution; for then most community expectoration takes place.

DESCRIPTION. At the commencement, the patie ntis generally attacked with circliness and shivering, which are fucceeded by heat, refiledness, pain in the head and side, the last

very

very acute and pungent, running to the back and collar-bone—

ity of lying on the fide allected, with a dry cough, in
the pain, which, after the third day, is attended with

a citoration of a thin, fanious, and fometimes bloody mat
te breathing is also very difficult and painful—the pulfe

h cufe—the blood, when drawn, firm in its texture, and

c is a consecous, or fubitance like buff-leather—the

in coloured—and all the symptoms of a peripheu
mony, which we shall hereafter describe.

e mee de or inducing are, obstructed or impeding exercise, cold, thick, heavy air admitted
cell northerly winds—drinking of ardent ipirits
ind when the body is over-heated. Sometimes
last, elle, and spassmodic pains—suppressed evainto the meakles and small-pox, &c.
into as or the chell—and, in sine, whatever will creas on the as possessed of an inflammatory dispo-

wimate or imm was, an inflammation of the pleura runag the extenor for are of the lungs, or that part coverlos; but not frequently of both affected at the fame

CACTERISTIC SIGNS. A pungent pain of the ..., ended with febrile affections, vain also in inspiracion particularly increased; a difficulty of lying down, for the most part on the side affected; and very painful cough—in the begin-

ning dry, atterwards moift, and often bloody.

GURE. The indications are fimilar to those of inflammation of other parts -at the oafet, we must have recourse to copious bleeding, and that repeated, if the fymptoms continue urgent, according to the firength of the patient-the blood faould be taken from a large orifice; and in firong full habits, and young up-grown fabiscis, not less than fourteen or fixteen ouncesabove the part is pain cupping-glasses may be applied, and blood taken away by those means-if the pain should be relieved by the first bleeding for some hours; and, notwithstanding that, the pain and oppression return, the operation must be repeated, and about twelve ounces more blood taken away; and, indeed, should the symptoms prove oblinate; and return in the course of ten or twelve hours, we must have recourse to the operation again, and apply a butter over the part affected, especially if the inflammation appears to extend idelf outwardly, or the pain has any great degree of feverity; for, indeed, our chief dependence retts on bleeding and local bliftering, to weaken the tone of the valcular fythem, and fubdue the violence of the action of the vefiels ---

wellels-after the first bleeding, and in the intermediate times, fuch things should be administered as will co-operate to premote thefe intentions - we mult, therefore, have recourse to fach things as are diluting, relaxing, and emollient, with cooling and aperient dimeries-hence may the patient drink copionaly of pectoral desoction, bran or sinferd tee, almond mik, apple-scater, lemonade; in all which portions of nitre may be diffolved; and the body should be kept open with cooling and relaxing gly flers, (No. 25, 26.)—a large fource dipped in warm vinegar applied to the mouth and nothrils is nicial, as well as diluting drinks, that the vapors may be received with the air into the lungs, relax the pores of the pulmosary vehicles, promote exudation, and bring on expectoration, by unloading the distended blood-veffels, and making them permeable -or, for this purpose, the sleams of warm water, or some emollient decoclion, might be received into the lungs by innaling them from the spout of a large tea-pot; or by Mudge's inhaler, contrived for that purpois.

Emollient fomentations, or lags filled with boiled herbs, might be applied over the parts --aily medicines, forming emultions or lineaus's, (No. 84 to 84.) might be taken internally occanonally ---and nitre, mixed with a little campion, or antimonials---and fa-

line mixtures given every two, three, or four hours.

In the beginning of this discase, there is little doubt but this, like other inflammations, may be carried off by resolution; but if the power and drength of the vessels have been so weakened, or there has been a plentiful deposition of morbid matter upon the lungs, which has changed the nature of the pulmonary study, we must then endeavour to promote, by all means, expectoration, as the only remaining means of faving the patient from extreme distress, or death.

For this purpose, added to what we have above delivered, as an attenuant, seneka, or rattlemake-root, (159.) is essented a powerful one, and has in these cases been attended with success, given three or four times a day; it promotes perspiration and expecteration; but when we find the latter is remifs, expectorants must be had recourse to, (No. 95.) four spoonfuls of which

must be taken every third or fourth hour.

When people begin to expectenate, some authors forbid any faither use of the innest; but so have as the violence of the symptems go on to increese, we may pursue it to a south or fifth time; may, indeed, faither, according to the strength, till we find them allieviated, and the patient perceives himself confiderably relieved.

This alleviation will be perceptible on the fourth or fifth day, by the head being freer from uneafficis, the tongue more moil;

the cough will be less troublesome; the breathing not so difficult; the expectoration more easy; the matter less tinged with blood; and by tome alleviation and freedom in the pulle, which will beat

more regularly, and with more quietude.

Under these circumllances, we should perfest in the use of diluents and expectorants, keeping the body open with gentle catharties, fuch as the electarium e catha, oil of caftor, manna, Rochehe falt, &c. (169 to 171.) or by the use of emollient gly-

fters---defitting now from farther bleeding.

Though the disease in a few days generally terminates favourably, if the expectoration coatinues free and copious, yet fometimes it flops fuddenly, and no other discharge fucceeding, the breathing becomes difficult and laborious; we must then endeayour to renew the discharge, lest the patient should die sussociated, by bloeding, inhaling warm fleams into the lungs, the application of billers, and untimonials, fufficient to promote gentle vomiting.

As the mode of treatment mult be fimilar in the limple inflammation of the lungs, heart, mediaftinum, pericardium, and diaphragm, (28, 29, 33.) we thail now only deferibe them, to thew

how they may be discovered --- and, first,

1 2. PERIPNEUMONY, so called from the Greek words peri, circum, about, and pneume, pulmo, the langs.

for the Lungs.

DESCRIPTION. This begins with shivering or chillness, fucceeded by heat-after which there comes on anxiety, debility, and rediefinels, watchings, and delirium-the blood drawn is fimilar to that in a pleurify-belides, there is a redness of the countenance and in the eyes-the tongue is white and dry-the respiration laborious, quick, and hot, attended with a dull, not an acute pain—the patient cannot lie on the fide affected—there is a pain in the shoulder-dry cough at first, afterwards moist, and vomiting - the pulse is full and fost-the urine high coloured, which, after standing, sometimes becomes turbid-at length the mind is disordered—the fight fails—a kind of histing noile attends the breathing-the pulse rather creeps than beatsthe extremities grow cold-partial fweats breaks out in the fuperior parts-and death closes the feene.

Now this complaint is obviously distinguished from a pleurity, by the breath being bot, the pain and, not acute, and the pulle wife

full and foft.

CAUSES. The remote or inducing, (see page 325.) Provimate or immediate, inflammatory obthructions of the terminations of those arteries of lungs, (30.) called pulmonary and bronchial, either separately or conjointly.

CHARAC-

CHARACTERISTIC SIGNS. Febrile effections, attent a with an obtufe pain under the breathbone, a betwiet the modern-anxiety, and difficulty of breathing—a cought, go arm, though not always, moiss—the face swelled, and of a purpula colour.

CURE. (See Plaurify, page 326.) But here it may not useless to observe, that there seems to be a material alteration tween the termination of an inflammation of the pleara and its of the lungs—the folution of the fast of ten happens by a pleaseful sweat, or a copious discharge of loaded urine—of the lost, more frequently by expectoration—and in both cases, when it is evacuations of sweat, urine, or expectoration have been period, a full and falutary criss is formed, all the oppositive symptoms vanish gradually, and the re-establishment of health happing succeeds.

The inflammation of the mediastinum, which is only a daylicature of the plenra, manifests itself by an acute pain in the middle of the breast, between the breast-bone and the spine, or clavioles or collar-bones, attended with frequent and quick breathing, and the rest of the pleuritic symptoms.

The inflummation of the heart, and the membrane furrounding the heart, is accompanied with a deep-leated pain—weight, anxiety—very quick, and frequent respiration—great thirst—a heat in the chest—palpitation of the heart—with a hard and unequal

pulse, and frequent fainting.

The same affection making the diaphragm, or that part of the pleura which covers it, (27.) to feat, has for its attendant symptoms, an acute fever—rentefineds—anxiety—and delirium—an acute pain between the spurious or short ribs, and the vertebræ of the back places opposite to them, agreeable to its situation—the breathing is quick and short, accompanied with convulsive catchings in inspiration—a dry couch and hiccough—the hypochondrium, or part below the front ribs is drawn in towards the back, and the abdomen, or lower beliy, has little or no motion during the action of breathing.

The three complaints we have now mentioned are called by fyscenatic writers, CARDITIS, from cardia, cor, the heart—PERICARDITIS, from peri, circum, about, and cardia,—and PARAPHRENITIS, in contradistinction to phreninis, or the inflammation of the brain, because, though a delirium always attends it, the brain is only sympathetically affected in this case, whilst in

the PHRENITIS it is the feat of the disease.

With respect to the cure, we must pursue the same plan as advised in pleurily, exerting our strongest efforts to produce resolution, the only falutary termination; for all the other either bring

bring on immediate death, or lay the foundation for fome irremediable complaint, of which we shall treat, as foon as we have taken notice of another species of the peripueumony; for in this place we have confined ourselves to such as were purely inslammatory.

MALIGNANT PERIPNEUMONY.

This complaint is by far more dangerous than that we have before described—as it generally attacks those where humors are in an highly acrimonious flate, scoroutic habits, and failors

after long voyages.

DESCRIPTION. In this complaint, the blood is in a diffolved tlate, livid, and when drawn has no corraceous, or leather-like appearance upon it, furface, as in the inflammatory species—there is also great realleashes with extreme debility;—pains all over the body;—prosofte sweats, and red, or livid cruptions, like skea-bites;—the patients are 2pt to faint on the least motion, have a dissipationly of breathing, and cough or spit up a thin, sanious, thoody matter, which smells offensively—the pulse is

foit, and depressed, and the urine very high coloured.

CURE. The fever attendant on this feems clearly to be of the putrid kind, and as fuch must be treated—Bleeding, therefore, must be avoided, without at the beginning the pulse should be strong, for otherwise it does great injury, particularly if it should be repeated. Blisters also are michievous.—Our chief dependence rests upon vegetable or mineral acids—campborated vinegar, (No. 55.) with a nourifying and acesent diet—vivous liquids, particularly such as are assingent, the best of which are rhenish, claret, and red port—Opitus also have been found serviceable in thickening and rendering more mild the thin, acrimonious humours deposited upon the lungs; but then they should be given with great caution, taking care not to increase the difficulty of breathing by their use.

Of the fourious periphenmony we shall take notice, when we come to treat on ashma; and now proceed to treat on some of the consequences of pleuritic and other inflammatory affections

of the breaft, forming different diseases.

For when the pleurity, or peripueumony is not cured by refolution, or expectoration, matter is generally formed within the chell, which, according to its fituation, has received different appellations; when in the body of the lungs, though no more than an abicefs, it is called VOMICA—from vome, to vomit, because they vomit forth, as it were, matter—when between the pleura, EMFTEMA, from en and puon, pus, matter.

T t 1. Vo.

1. VOMICA.

DESCRIPTION. Upon the formation of matter, which, occurs, if the inflammation goes not off within fourteen days, there is an abatement of the feverity of the fymptom.—the pain ceafes—and the pulse, fill quick, is weaker and fofter; yet the cough, difficulty of breathing, and oppression still continue—and if in this fituation the patient feels a slight shivering, succeeded by heat, little doubt remains of an absects taking place;—add to this, if the cough increases upon the least motion, the patient cannot lie but on the side affected, and the sumptoms grow daily more severe, accompanied with debility, and emaciation, these appearances make it more certain.—And should the vomica burst suddenly, a sufficient may be dreaded—or should the matter not find its way into the branches of the windpipe, so that it may be coughed up, and make its exit out of the habit, all hopes of success are at an end,

2. EMPYEMA.

DESCRIPTION. An increased difficulty of breathing upon the reclention of the breath, preceded by an unresolved inflammation---inability to lie on the side unasseded; a sense of weight above the diaphragm, and many symptoms common to a dropsy of the chest—because the immediate cause is a quantity of matter lodged in the cavity of the thorax, or the matter may form a sic in any of the membranes of the breast; though they commonly burst, pour out their contents into the cavity of the chest, and by pressing upon the diaphragm, or other parts, according to the position of the bedy, occasion the symptoms before specified.

CURE. In both these cases every prospect of success depends upon freeing the habit from the offensive matter, which, should we not be able to accomplish, either the patient will die sufficiented—or consumptive. In an EMPYEMA there are no hopes, except making an aperture between the ribs into the chest, as low as possible, to avoid wounding the diaphragm.

In a VOMICA, if from the expectoration of matter we have reason to believe that it has built into the branches of the windpire, and the matter be white, smooth, and free from any offensive fixed, and continue to be freely discharged; if all the oppressive symptoms from day to day abate, particularly the cough and laborious breathing, we must not despair of a recovery, which we must endeavour to promote by the use of expectorant balsamics conveying the steams of the ætherial spirit of vitriol—or STERNE's æther dropt into hot water, and inhaled into the lungs, in order to cleanse and heal the user.

Ground

Ground ivy, hyffop, chervil tea, whey, fweetened with honey, are proper drinks---all animal food and broths flouid be avoided, and their place fupplied with milk---rice, fpinage, turnips, or any other diluent, cooling vegetables, properly prepared: these will keep the body cool, and dispose the humours to be mild and soft---and proceed farther in the manner we have laid down in pulmonary consumption.

Sometimes matter will be so utuated by being locked up in a sac, whose sides are formed so thick, that the matter cannot be absorbed into the habit, but communicating with the branches of the windpipe, be from time to time expectorated---under this circumstance men will live a long time, as I have in two instances known, where nothing was ever attempted but putting

the patients on a milk diet.

Sometimes an adhesion will be formed between the membrane covering the onter surface of the lungs and the plantal which covers the inside of the ribs, forming a cavity, and points itself outwardly; or manifests itself by a constant fixed pain in some particular part—under these circumstances, when all hopes of a cure by expectoration are past the vomice and ulcers have been conquered essectually by an aperture being made into the cyst in which the matter was lodged. Gases attending the success of this practice, with the mode of management, may be found in Dr. Barry's treatise on the three different digestions, and discharges of the human body, to which our reader is referred.

§ 3. Pulmonary Consumption,

called PHTHISIS PULMONALIS, from the Greek word pthino or pthuo, corruppo, to corrupt.

This difeate is a wasting away of the whole body, attended with a hectic fever, cough, and spitting up of matter, from an

ulcer on the lungs.

Authors have divided them into different species; THE DRY, or TEBERCULOUS CONSUMPTION; --- THE MOIST, OF CATARRIMAL--- and THE SANGUINARY, from their attendant symptoms and causes; but by dividing this disease into two stages, and adverting to the cause, we shall, by a concise view, render it less perplexing; the FIRST, comprising its state of inflammation; the SECOND, of suppuration.

DESCRIPTION. The inflammatory flage begins with chillness, succeeded by heat, low spiritedness, and pain-shrillness of the voice, salt taste in the mouth, and dry cough-there is generally an oppression in the breast, especially after motion-thirst-

T t 2 a weight

a weight in that part of the lungs affected-loss of appetite, and veniting up formetimes of the food foon after taking it-the pulse is quick, fort, and small; sometimes full, and rather hard-and frequently a spitting and coughing up of frothy and florid blood -this forms the first species-and when blood is congled up, the third, or sanguinary; and this by some is considered as a confumption in its incipient state.

After some time, matter is expectorated of different colours, white, yellow, green, bloody, either without smell, or offensive—the body begins to sall away, and grows cold even in summer—the hettic sever increases in the evening, and in the morning abates by distributing sweats—there is a burning heat frequently in the palms of the hands—and in the day loosenesses come on, or the patient makes a larger quantity of water—sometimee the tongue will be beset with small ulcers—and, after eating, the patient will have a fixed red colour in his cheeks—the singers grow thin, though the ends are bulbous, and nails curve inwardly—the feet swell—the hair falls off—and pit of the stomach feems to be pulled inwards and upwards—all the sunctions grow languid—the body dry—and the eyes sink deep within their cavities—at length, from debility, the patient pays the debt of nature, at the time when he is stattering himself with the hopes of a recovery.

CAUSES. The remote or including are, acrid matters separated by the lungs, and, by their stimulus, exciting a cough-small glandular tumors, called tubercles-sfumes of arsenic, or other noxious materials, getting upon the lungs-moist air-spitting of blood a diminution or suppression of evacuations to which the constitution is accustomed-inordinate pation-sedentary mode of life-too luxurious living-extraneous bodies getting into the lungs-wounds-retropulsion of acrimonious humours-besides, it is occasioned very often by a variety of other diseases; as serophula, pox, small-pox, meazles, seurvy, assuma, pleurify, and peripnenamenic diseases; scarles sever, and other continued and remittent severs; besides, it may by contagion be acquired; and is also hereditary.

The provinute or immediate is, in the first slage, an inflammatory state of some portions of the lungs, particularly the glandular; in the second, almost always ulcerations, which the opening of dead bodies who have died of this complaint verify; though sometimes the cause has been found to be, an induration and swelling of the bronchial glands, which are dispersed through the lungs, hard and black, not suppurated in the center, but running together, and sirm, of the size of hazle-nuts or nutmegs, and oozing out a purulent mucus into the terminations and branches of the windpipe, not observable in the spits—some of them form

earthy

earthy concretions, do not suppurate kindly, but remain in a state of hardness, and, when cut, ooze out a thick purulent mucus, and thick black blood.

CURE. Now, whether we consider them as different species. or as different stages of the same complaint, we must adapt our mode of cure accordingly-hence, then, IN THE FIRST STAGE, we must endeavour to conquer the inflammation, by gentle bleeding, renewed at proper intervals, and the applications of blifters to the back and fides, frequently repeated; we should also give oleaginous and incraflating demulcents, to theath the humours. and prevent the coughing-gentle vomits should be, after proper evacuations, repeatedly had recourse to, at least every morning. by giving a few grains of ipecacuanha, white or blue vitriol; though the first is preferable-a course of goat's whey would be ufeful-living upon vegetable diet, and being extremely temperate-when the inflammation abates, gentle doses of some deobfigurents; fuch as ammoniacum, millipedes, myrrh, ammoniacal iron, &c. would be ferviceable to fome; to others Seltzer water: thoie of Monat, Harrowsate, Kilburn, Illington, to others; using at the same time riding exercise.

Small dotes of mercury have been thought efficacious in refolving the tubercles after the inflammatory stage is over, of which quickfilver with chalk, by some, has been preferred to every other composition of that class; but, whatever of them are administered, should be given in small doses, in proportion to their

activity.

IN THE SECOND STAGE, the indications are, to discharge the offenfive matter from the constitution by expectoration, or any other
mode agreeable to nature, permitting her always to point the way;
heal the ulcerations, strengthen the lungs, and give tone and firmnets to the habit in general; for which purposes chalybeate waters,
mineral acids, particularly clixir of vitriol, have been recommended; gentle exercise, especially riding on horseback; a clear, dry,
warm air, and such amusements and company as will moderately exhilirate, not fatigue the spirits—venery, all painful mental
affections, or too great solicitude about business, should be avoided.

In order to clear the lungs, and produce freedom of expectoration, we advise gentle emetics, (see above.) and failing, for these are greatly conducive towards giving strength to the part affected—the myrrh mixture, (No. 96.) has been in many cases highly serviceable—and, in order to prevent the absorption of matter from having any bad effect upon the blood, antiseptics, not of the stimulating kind; and demulcents, with vegetable and mineral acids, should be used, if the patient has no looseness to forbid their

administration—bark also in this point is beneficial—at the same time the patient should be kept on all such things as are cooling and nutritions, and what we comprehend under the term milk diet—and if neither riding exercise or failing can be procured, swinging in the open air must be substituted in their places.

Nothing is more necessary than an exact observance of regimen in point of diet in these consumptive cases; but of this, and other particulars, we have before spoken when on hestic sever, to the cure of which we shall refer our reader, (201, &c.) and proceed to treat on some other species of consumptions, which arise not from assections of the lungs, but from matter some in some other of the viscera, and these are called

TABES,

from the Latin word tabeo, to pine away.

DESCRIPTION. Emaciation of the whole body, attended with an hectic fever, loss of strength, without much cough or spitting of matter; and these are generally owing to formation

of matter in some of the interior parts of the machine.

If it happens in the LIVER, it is known by pain extending it-felf up to the shoulders—a swelling, and pain on touching the region of the part effected—nausea, vomiting, and looseness—there is frequently a cough—the skin has a fallow or yellowish look—and the sediment in the urine is either brown or yellow.

If in the STOMAGH, it manifelts itself by factid offensive belchings—a cough without expectaration—a vomiting of purulent matter—fainting frequently—fweats—and pain, either during the time of fwallowing, or just after.

If in the INTESTINES, it is discoverable from the fituation of

the parts, and the feparation of matter by fool.

If in the MESENTERY, the figns are nearly fimilar to those which occur when in the liver, (see above) though a hectic fever, joined to a tense swelling of the belly, and a frequent diarrhoea, are distinguishing marks of this disease.

If in the KIDNEYS, there is a weight in the part affected, the patient lies on his belly, the urine has matter mixed with it, and

there is a difficulty and pain in making water.

If of the WOMB, it is known by a pain of the loins, and a flow

of matter externally through the vagina. (51.)

A tabes may also be occasioned by matter being lodged in some parts more external, where an evacuation of pus may be procured by opening the abices; which done, and the ulcer healed, the cure will be completed; but where this cannot be accomplished, as is generally the case in almost all of the imposshumations

tions we have specified, we must attempt to correct the acrimonious state of fluids brought on by the absorption of matter, and guard the constitution against its essents, by the use of Peruvian bark, and such a regimen as we have before laid down in eases

of confumptions from ulcers of the lungs.

Sometimes, though there will be a feirthofity, or hardness of the parts, particularly the liver and melentery, arising from the vessels being obstructed; to the latter of which children about seven years old, without any signs of a forophulous taint in the habit, born of common prostitutes, are said to be the most subject—they grow pale, spiritless; have a voracious appetite, sometimes a depraved one, longing for things encommon and improper to est; with a relaxed state of the intestines, and a looseness, in which the food taken pages away almost in an unaltered state, soon after eating; they sall away, are consumed by a low lurking sever, and often sall into a dropsy of the belly, or a local infammatory affection comes on, and closes the seene in death.

CURE; This, in all cases of their kind, is to be attempted, by seed medicines, or waters, goat's whey, sofile alkali, or soda, (Page 185.) or such of the mineral waters as abound with them, joined to als' milk---deobliruent gams, particularly myrrh, ammoniacum, with scap, and preparations of sieel, rhuberb, and tartarized kali, may, when opening medicines are necessary, be given; and, with the use of these, a milk diet should be persisted in, with great regularity.

Though we have faid that most of these consemptions, not of the pulmonary kind, arise from formation of matter, or ob tructions, there is one which deduces its origin trem another cause:

and this is called

TABES DORSALIS, OR THE DORSAL CONSUMPTION.

from the Latin word dorfum, the back; which, besides the common symptoms of a tabes, is to be divinguished by others, as a constant discharge of muous, or feed so called, through the urethra, with frequent nocturnal emissions—discharge of making weter—considered—pain and weakness in the small of the back—violent and acute head-ach—with an uneasy creeping sensation down the spine from the neck to the loins—difficulty of breathing, and weariness, with an heaviness of the head, and ringing of the ears.

The general CAUSE of this complaint is, excess in libidinous indulgencies, which often ends fatally, as the unhappy victims are generally fo weak as to perfift in them; and, without total

abstinence, the most judicious advice will be inessicucious.

CURE.

CURE. This depends upon our attempts to invicorate the fysiem, and increase the strength and activity of the folids, by a course of als' milk, steel waters, the cold bath, with bark, and elixir of vitriol—the patient living in a pure air, using gentle exercise, light, and moderately cordial diet, given in small quantities, such as will not be too great for the strength of the digestive powers—these applied in time—and no disease requires more early application—before the hestic sever, and violent night sweats come on, may give relief; but, after that period, there is little hope for success.

§ 4. INFLAMMATION OF THE STOMACH, OF GASTRITIS.

from the Greek word gafter, ventriculus, the flomach; in which case the stomach is said to be insamed wholly, or only

in part.

DESCRIPTION. In this complaint the GENERAL SYMPTOMS are, extreme anxiety--watchings--reflections--toffing about of the body-fainting-with a most acure fever, foon accompanied with nervous and puttid febrile affections—the 1.0-CAL; great thirst-difficulty of breathing-pain in the region of the stomach--excessive heat, and a sense of burning-continued painful vomiting-biccough, and extreme pain from throwing up of wind, and particularly after taking any sharp acrid medicines-fullness and tension of the stomach---the pute rather hard, contracted, and frequent-with coldness of the extremities.

CAUSES. The remote or inducing are, a prevalent predifforfition in the stomach being present—bruises on the region of that organ, or wounds in the stomach itself—drinking of cold water, fermented liquors, strong acrid emetics or purgatives, or other acrid medicines thrown into the stomach—corrosive poifons—acrimonious humours generated in the blood, or repelled from the exterior parts of the machine, and thrown upon the coats of the stomach, such as that of the small-pox, miliary eruptions, gout, acrid bile, or any hard substances swallowed, and lodging in the stomach; or, in sine, any thing fixed there capable of producing strong irritation—which naturally bring on the proximate or immediate cause, insammation.

CHARACTERISTIC SIGNS. There may be known from

the Italics in the description.

CURE. This will in many cases depend upon adverting to the causes acting upon the stomach, and taking off that action; but if it arises only from those which commonly induce inflammation, our chief dependence must be upon copious bleeding, fomentations, cupping upon the parts, and local blistering, and keeping the body open with emollient glysters—very little

can be expected from internal remedies, from the propentity the flomach has to reject whenever is taken down—hence all we dare venture upon are demalerate, only moderately warm, fach as folutions of gam analyse, treatments, or speciments, with nitre; to which may be added, a very facility portion of complion, and three or four drops, now and then, of the trackure of opinim—nitre may also be added to the adjutes, and thrown up freely into the bewels—flameds also, so ked in warm foliation of nitre, may be applied as a fomentation.

But what we must noth itself upon must be bleeding—nor must we be directed by the pulse, as in this case it is apt to deceive us, for it is generally family, quick, and irregular; fometimes intermittent; the operation should therefore be repeated till the pulse rifes, and beats with some decree of freedom.

Indeed, if relolation is not accomplished in the very begin-

ning, mortification will very rapidly faceed.

Suppose rotion form's in the couft, at a very early period a quickly acting emetic should be given, such as white or blue viriol, inflantaneously, and afterwards large droughts of new milk, or fresh butter undeed, and oil; these are extremely falutary; or any other sheathing liquids, drank in such quantity as to fill the whole alimentary caual, in order to guard the coars of the stomach and intestines from receiving any injury from the acrimony of the poissonus stimulus—when even arsenic has been taken, these have been found estimations.

Should the paif ms be compounded of any metalline fulfilance joined with an acid, suppose corrolive feblumate, before the inflammation comes on alkaline falt diffolded in water should be feely administered; this will disunite the compound, and render it inactive.

Admit it thanks be occasioned by any emptions receding from and thrown built into the habit from the factore, and fixing on the floratch, we found apply thinkers, in order to recal to the fain the offending matter, by foliciting a more copious flow of humours there.

§ 5. INFLAMMATION OF THE INTESTINES.

called ENTERITIS, from the Greek enteron, intestinum, intestine. Perhaps there is not any complaint to commonly talked of as this; yet it certainly does not occur any thing like so often as is imagined—some species of the colic is frequently. I am permaded, mittaken for it—practice warrants me in laying thus much.

DESCRIPTION. It generally proceeds in the following manner: after the body has been collive, there comes on acute

pain, and diffention of the body, particularly near the navel; the coftiveness then becomes more obstinate—the patient complains of sickness, and throws wind upwards—then succeeds vomiting of the contents of the stomach, afterwards of viscid phlegm and bile—should this continue, the sweet come up, nay, even the glysters, by the mouth—there is much distinsty of breathing—an obstruction of urine—the pulse quick and small—thirs—and great debility—the pain at length ceasing, saintings, hiccough, delirium, and convultions, close the scene in death, occasioned by a mortification having taken place.

CAUSES. These which are remote or inducing are faid to be, ruptures in the groin—worms—stimulating medicines—poisons—or too acrimonious bile—too long retention of faces—unripe fruit—or any hard substances lodged in the intestines—an introsusception, or running in of one of the bowels into the other, and there confined by some stricture—tumors or hard

fwellings in the intestines or neighbouring parts.

The preximate or immediate, what occurs in other local inflammations, attended with the natural motion of the bowels, called periffaltic, inverted and turned upwards, arising from the bowels being obstructed.

CHARACTERISTIC SIGNS. Great internal pain, and foreness about the navel, so that it can scarcely bear the touch, with a diffension of the belly, accompanied with thirst, heat,

great profiration of strength, and a quick small pulse.

CURE. Whatever may be the cause, we must labour to bring about, as quick as possible, resolution, lest mortification should be the consequence, which may in a very short space of time succeed.

The treatment recommended in the inflammation of the flomach will be here proper; though more reliance may be placed on internal remedies, which must be calculated to gain a passage through the bowels, check the vomiting, and subdue the inslammation.

To answer the first purpose, the mildest aperients should be tried; if they avail not, those which are stronger; and should they be rejected, we may couple them with opiates; the doses should be small, and often repeated. (See No. 97 to 99.)—If liquids will not succeed, solids may supply their place, (No. 100, 101.)—or should these not answer, in conjunction with them, suppositories, (No. 102.) and irritating slysters, (No. 103.) or the use of tobacco, (165.) may be tried; or crude mercury may be taken, an ounce at a time, three or four times a day.

Should fome acrimony be suspected to be the cause, the purging antimonial mixture is recommended, (No. 104.) of which

let three or four spoonfuls be taken every second hour, till the patient vomits, and has a free passage downwards. Indeed, when every thing has been tried in vain, cold water thrown suddenly upon the foet, legs, thighs, and belly, had bare, has succeeded.

If these remedies, added to the applications we have advised in influentations of the stomach, do not answer our purpose, mortification will take place—and here we must be careful that we are not deceived; for people, for ten or twelve hours before their death, being freed from pain, slatter themselves with the loopes of recovery, even when the satal scene has commenced, and they die in a few hours—but if the pulse should be low, the countenance become pale and ghastly, and cold claiming sweats come on, we may be certain of the dreadful event.

But, should our efforts prove fuccessful, great care should be taken to avoid a relapse; for, unless the bowels have acquired

proper thrength, the malady is apt to return.

The diet therefore should be, for some time, of the lightest kind, and not slatulent—the patients should be kept quiet, free from cold, and unrussed by mental inquietude—nothing crude and distinct of direction should be taken; nor should they use much walking exercise, or any severe motion of the body.

§ 6. Inflammation of the Liver,

valled MEPATITIS, from the Greek hepar, jecur, the liver.

The liver itself may be inflamed, still manifest itself by different symptoms, which authors have thought necessary to specify, in order to avoid any errors which might occur for want of fucls

proper distinction.

DESCRIPTION. If the inflammation happens on the interior concave part of the liver, it is discoverable by a fixed obtute pain, and weight in the right side under the short ribs, attended with heat, uncalines about the pit of the stomach—the pulse on the attack being almost in the natural state; though afterwards much quickened—there is in the right side also a distension—the patients lose their appetite, are sick, and troubled with vomiting—the tongue becomes rough and black—they complain of pain in the stomach, have a very troublesome hiccough, and their countenance is either pale, of a citron colour, or yellow like those in the jaundice.

If it is on the superior or convex part, they seel an acute pain in breathing, extending either towards the throat or shoulder—the pulse is quicker—they have a dry cough—lie down with dis-

Uu 2 ficulty

ficulty on the left fide-are troubled with hiccough and vomit-

ing, and grow extremely weak.

CAUSES. The remote or inducing are, too violent and repeated thocks from vomits—hard tumors of the liver—extremely tenacions blood—too great a load of fat in the omentum or caul, (27)—cold air, or cold liquids faddenly affecting the liver, at a time when it experiences too great a degree of heat.

Though fome do not confider the complaint as originating in the liver itself, but compreniented from the parts which lie contiguous to it, being thus primarily all deal -to all which we may aid, amongst the number of inducing causes, all tach as are com-

mon to other fevers of this kind.

CHARLETTIC S.G.S. A traffer and pain in the right fair under the fourious ribs, forestimes paramed, like that of a parameter; formetimes more obtain, with a finite of heat and weight—a pain at the collar bone and top of the right floraiser—an uncaffinels on lying down on the left fide—a difficulty of breathing—dry cough—comicing and his organ—the face of a yellowith colour, accompanied with thirlt and a loathing of food.

CURE. This discuss in our climate is confidered as rather uncommon, though, if properly treated, it rarely becomes dan-

gerous.

In this, as in other cases of visceral inflummation, we must have recourse field to emious bleeding, nor wait to be led till it is indicated by the pusse; after this, a blister should be immediately applied over the part affected, where the pain is selt; the beily should be formented, the legs bathed in warm water, and emolticut and attenuating plythers frequently administered, (No. 27, 20)—intine neutral mixtures, with antimonials, should be given, to which should be added as much rhubarb as will keep the body constantly Islable, (No. 8.) and when the pain and other inflammatory symptoms are perceptibly abased, mercurial purgatives, joined with antimonials, will be of the greatest advantage. (See No. 105, 106.)

These means, if early and judicionsly applied, will generally conquer the inflammation—if not, an absects of seinbus is formed—the consequences of which are very frequently incurable tabes, judicio, and dropsy—though there are sometimes peculiar circumdances by which the patient in cases of absects is preferved—hand the inflamed part of the liver form an adheuou with the membrane covering the infide of the right hypochondrium, or put under the spurious ribs, so that the matter contact in a fact is prevented from falling within the cavity of the belly, and puther outwardly, occasioning a swelling which points

for the feat of the abfects, an inciden made into it, sufficiently large to evacuate the whole matter, may save the life of the patient, see page 331, &c.)—sometimes the matter formed will be thrown out of the habit by the kidneys, sometimes by the intestines; but from whatever cause matter is formed in that organ, we must writ for the operation of nature, and have recourse to such remedies as the circumstances of the case will admit, labouring childy to support the constitution in the manner we have before specified, when treating of consumptions from internal abscesses.

§ 7. INFLAMMATION OF THE SPLEEN.

called sprentres, from the Latin word folen, the fpleen.

This, through a cale which very rarely occurs, still, in confequence of certain levers of the remittent and intermittent class, the sphen will frequently be loaded, and remain in a hardened and indolent state-however, when it does make its actack, it

puts on the following appearances:

DESCRIPTION. There is a pain, generally dull, and fixed in the left hypothendrum—also a weight attended with a remutatent lever—there is generally a protuberance on that fide externally, attended with a throbbing pullatile pain—the fever, for the most part, increases every nourth day—the feet and knees grow red—the pose and east sometimes pale, attended with a difficulty of breathing.

GAUSES. These are fimilar to those which induce the same affection of the liver, if we except the morbid detect of the o-

mentum or caul.

CHARACTERISTIC SIGNS. Diftension and pain of the lest hypochoi drium, increased on profibres, without any symptoms of an influentatory flate of the kidneys, attended with a remittent tever.

CUAL. Similar to what we have delivered in cases of in-

I'm, without much previous diffress or diforder, an absects will here to estimes be formed; which, burthing suddenly, pours its emports amongst the vilcera of the belly, and in a few days destroys the unhappy patient.

§ 8. INCLAMMATION OF THE KIDNEYS, OF NEPHRITIS.

to called from the Greek nephron, ren, the kidneys.

DESCRIPTION. Those who are feized with this complaint feel a heat and pain, and cometimes have a reducts in the region

of the kidneys, attended with febrile affections—they complain of a number's of the thigh and leg of that fide is which the alfected kidney is fituated; they make water with difficulty, which is at first pale, as awards high coloured—and complain of a painful uneasiness in fitting down or standing—they lie down with most case on the fide affected—they complain of coldness of the extremities—are sick, and vomit, and breathe with distinulty; at length, if resolution takes not place, a suppuration or mortification succeeds.

This has not unfrequently been mittaken for in inflammatory lumbago, or pain of the loins; but from which it is difficulthable; first, from the patient's being able to taife himself into an creet posture; from being bent forwards without any remarkable pain, which in the lumbago is very severe; from the pain following the course of the ureters (50.); from the difficulty of making water, and the urine being more changed, which is not the case in the lumbago.

CAUSES. The remote or inducing are, whatever causes an irritation in the kidneys, so that the blood is determined too ficely and obstructed there, such as wounds and bruises—calculous concretions—food which generate statulencies in the bowel, called colon, (43.)—heating diureties—shaking in a carriage, or on horse lock—suppressed evacuations—fullness of blood, or any strong spasmodic contractions of the kidneys themselves.

The proximate or immediate are fimiliar to what induce other

local inflammations.

CHARACTERISTIC SIGNS. Pain in the region of the kinney, often purfising the course of the ureters—frequently making water—the urine being either pale, thin, or of a very red colour—numbers of the thigh—retraction or pain of the testicle of the same side, and vomiting.

CURE. If it proceeds from common causes, such as induce other local inflammations, the same mode must be pursued as has been repeatedly advised in the foregoing part of this work.

But supportations are often formed here, which are discoverable, notwithstanding the abatement of the pain, by a fense of weight perceptible about the region of the loins, with hot and cold fits succeeding each other, and the urine, from being high coloured, without sediment, becoming whitish and turbid—under this circumstance people will live many years, from there being so free an exit for the matter out of the machine by the ureters—however, in ulcerated kidneys, goat's whey, balsam of copaiva, (P. 165.) Canada balsam, (P. 175.) and also sofile alkaline waters are recommended—solutions of kali impregnated with sixable air, (P. 199.)---demulcents, (P. 187.)---the leaves

of the bear's wortle berry, (P. 130.) in powder, have been highly recommended in these cases; and, from experience I speak,

much may be done by its use.

But these calculous concretions, called from, or gravel, are the most frequent fource of inflammation in the kidneys—this cause is discovered by the pain increasing, and being more acute from exercise, or riding in a carriage—being more violent at intervals—from the unine being sometimes gravelly, bloody, or mucous—the numbres of the the thigh—retraction of the testicle on the side all cled—pain following the course of the unteres—as well as nause and vomiting being more violent.—The indication of cure in this case is, not only to take off the inflammation, but to procure a passage for the offending materials, whether gravel or calculus, by relaxing the parts, that it may slip away, and be evacuated.

Here then, besides bleeding, warm bathing is essentially necessary; somentations copious use of demuleents, (P. 187.) particularly the internal emollients, (P. 142.) oily emultions and draughts, (No. 81, 98, 99.) emollient glysters, with turpentine and opium, (No. 116. 122.) diluent mucilaginous liquids sweetened with honey, as bran tea, linsted tea, decoction of marshmallows, or that of barley, in which last is dissolved gum ara-

bic, or gum tragacanth.

Nitrous medicines joined with the fame gums may be admi-

nistered, and opiates in small doses.

By these means the ureters will be relaxed, and sheathed, for the easy and quick passage of the calculus, or gravel, into the bladder---besides, the irritation on the parts will be lessened, as they will become less susceptible of the stimulus.

Should the flone be finall enough to pass into the bladder, and be evacuated, the complaint ceases—if not, a different one com-

mences, which we shall treat of hereafter.

§ 9. INFLAMMATION OF THE BLADDER, OR CYSTITIS.

from the Greek word kuflis, vefica, the bladder.

DESCRIPTION. In this complaint, the patient experiences a pain and tumor of the lower part of the belig--a frequent defre, and difficulty in making water---fometimes a suppression of urine --- and frequent efforts to go to stool, attended with sebrile affections --- to which we may add, the pain on touching is intolerable--- watchings, thirst, and delirium, with coldness of the extremities come on -- and, by retention of the urine, an increased hardness of the tumor.

CAUSES. The remote and inducing are, urinous acrimony

concur-

concurring with fallness of blood-an acrid flate of fluids-inflammation of the urethre, from venereal ulcers or acrid injections inflammation of the rectum-fupprefied piles-taking Spanisk Lies in too large quantities-in which, befides the difficulty of anking water, or fewere flrangury, bloody urine will be voided, and a priapifm occasioned, fometimes bringing on corrubtions-or it may originate from blows, brunes, comprehend, hard riding, or, indeed, from the flimulas of a flone in the bladder.

CURE. From whatever cause it proceeds, it must be coved, confidently with the plan laid down in inite practice of the kidneys; only, in this case, greater benefit may be derived from

fomentations and vapour applied to the parts affected.

There are an inframerations of fome other parts of the lower belly as the peritoneum, that numbrane lining the lower belly as the planta does the ched---omentum, or cavi. [P. 37.] melentery, (P. 46.) which, as they all of them require the fame mode of treatment, we shall particularize only those symptoms by which they are faid to be distinguishable.

THE INFLAMMATION OF THE PERITONEUM, OR PERI-

to called from peritoneum—is discoverable by a pain of the lower belly, which is increased by the body being in an erect potture, attended with fever; though not accompanied with figure peculiar to other abdominal inflammations.

Inflammation of the Omentum, or Caul, named Ometitis.

This is diffinguished by an acute darting pain, perceptible, through the superior and middle part of the lower belly, below the skin, muscles, and membrane of the abdomen, increased upon pressure, with swelling and tention, accompanied by an inflammatory sever.

IVLAMMATION OF THE MESENTERY, OR MESENTERITIS.

In this there is a tumor and deep-feated pain in the region of the navel, or thereacouts---the habit is altogether collive, or nearly fo---from the administration of glyslers, after the first, not any thing is evacuated---the sever is tometimes light, sometimes remissiont, at others violent---the urine high coloured--there is a bitter taste in the mouth---loss of appetite, thirst, and watchings come on --- afterwards a thin, red, feetid, or white mat-

ter passes off by stool.

THE MESCLES OF THE LOWER BELLY WILL BE SOMETIMES INFLAMED, and from thence theliver compressed—which physicians have sometimes millaken for an inflammation of the liver—but which is easily discoverable, from touching the skin, pullation of the tumor, and circumferibed figure, extending itself beyond the limits of the liver, and above the ribs—from the absence of cough, difficulty of breathing, vomiting, and hiccough—matter he cforming between the muicle of the abdotnen and the membrane which lines the inside of that cavity, has been mistaken for an affection of the liver itself—therefore necessary to be specified.

CURE. In all these cases we must have recourse to the same methods as have been repeatedly pointed out in local inflammations, to prevent suppuration—which, if we cannot effect, a tabes will be the consequence, particularly in the three sufficient mentioned—but we must here observe, that in cases of inflammations of the peritoneum, or that of the must eless of the abdomen, we must depend much on sometations—applying after each operation, volatile liniment, with tincture of opaum, (No. 107.)—and should not these succeed, blitters—which in the others may be useful—and in all, repeated glysters; for these act also as somentations, and in most apply closer to the part affected.

SECTION XIV.

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ON DISEASES WHERE PAIN IS THE CHARAC-TERISTIC SYMPTOM.

WE consider pain as arising from sour different causes, either trom nervous incitability, (P. 27.) vascular or muscular irritability, (P. 27.) distension, or spasm, creating simulus; and when it is so appressive as to become the most violent symptom, being of long duration, or sequently returning, it constitutes distribes of this class—which take their names either from the cause known, or supposed to be the agent, or from the seat of the affection.—Yet we mean not here to include all diseases which have pain for their adociate, because it is attendant on all inflammations, settled severes, remarkable evacuations, and evident spasms; but confine outselves to those diseases where

pain is the predominant symptom, unaccompanied primarily with any of the above-mentioned diforders.

indication and indication of officers in the section of the sectio

CHAP. I.

§ 1. HEAD-ACH.

IN this complaint, it will be fufficient to enumerate the causes; because it requires not any particular description; and, according to the cuse, to that is the cure adapted—but first we must observe, that it has been divided into three species, the two first agreeable to the nature of the assection; the last to its feat.

If there is a heavine's and uneary dull fentation, occasioning a rain in the head, as if it was too full, internally diffended, and everloaded, it is denominated CERHALALGIA, from hephalos, caput, the head, and algos, dolor, pain;—and, by way of diffinction, CERHALALA, if the whole head should not only be affected, but the pain be acute and violent, having fevere exactibations, or increase of feverity on slight occasions, with spannodic tension, and foreness of the integuments.

And should the pain attack either side of the head, chiefly at the temples, forehead near the eyes, and that should be violent, and often periodical, it is called REMIGRANIA, from emilia, di-

midium, half, and kranon, caput the head.

CAUSES. 1st, A too great fullness of blood—2d, suppression or retrocession of the menses or piles—3d, morbid particles occasioning interminents—3th, from a load on the stomach, and indigestion—3th, different species of acrimony; as that of the pox, gout, rheumatism—6th, hysteric spasse—2nd, 7th, from latent causes undiscoverable, or irremediable when known—to each of which in our mode of cure we must particularly advert.

If it deduces its origin from the FIRST—a full flow pulle--florid connetenance; there's oftener pale---load and heaviness of
the head, particularly of the fore part, immediately after riting
in the morning, or flooping to the ground—a difficulty of
thinking, of didingly reasoning, and detect of memory, diffinquish this.

Bleeding and purgatives will generally afford relief; if not, supping at the name of the neck, or back part of the head, may

be had recourse to.

If from the SECOND, bleeding during the fit will be necessary, and attempting to reproduce the periodic discharge, and solicit the renewal of the piles---b'eeding in the feet in the former, and at the anus with leeches in the latter, may be attended with agreeable consequences.

le from the TARRD, and it puts on intermittent appearances, back alone, or compled with valerian, (150, 103, 194.) (No. 32.) becomes efficacious, and giving emetics, (No. 11, 12, 33.) at

proper intervals.

If from the roughts, it will be attended with throwing up of wind.--naufea--lead and pain in the florach.--a bad take in the mouth---and vomiting; though this last will also attend both caphalalgia and hemicrana, (24%) without the origin of these disenses being in the firenach, but in the head only; hence

we should be careful in making this proper critication.

Therefore, if it is owing to the floratch, we must apply to extention, Mo. 11, 12, 33.) should not any thing in the constitution probable their use; and afterwards to purgatives; taking care previously, if necessary, to empty the vessels of the head by bleeding; afterwards bitters and chalybeates, (No. 61 to 65.) to frengthen the stomach—we must also assiduously prevent costiveness, with proper aperients taken occasionally. (No. 66, 108, 109)

If from the FIFTI, we must proceed to attack the diseases from whence they originate, as under these circumstances they

are only confidered fyinptomatic.

If from the sixth, or those called nervous headachs, penetrating, volatile, antifolimodic substances externally and locally applied, such as WARD's essence, wher, compound spirit of amrunia, camphor will sometimes give immediate relief—plaisiers allo made of opium, applied to the part affected, in periodical partial assections of the head, I have known essencious.

It from the SEVENTH, we shall be convinced how impossible the causes are to be discovered, and how little is to be done, if we only mention what has appeared on diffection of those who

have laboured under this complaint.

In some the futures of the fault were so closely and firmly conjoined, that no traces of the junction of the bones of the cranium were to be found—in some the dura mater (26.) was thickened and indurated, and in others it held earthy concretions—the fault, in some, fent out little processes, like thorns, running through the membranes into the brain—and, in others, crude quick/ilver was so and in the ventricles of the brain, (27.) at the basis of the scale.

Some periodic headachs, from fuch latent causes, will continue

X x 2

for a long series of years, without any fatal effects; whill others, if they are comfant and violent, terminate in apopiexies, some kinds of bad fevers, or spalmodic diseases.

Some general rules, however, are necessary to be observed,

whatever may be the precise nature of the affection.

Patients subject to these complaints should always keep their hands, atms, legs, and feet farm, particularly their legs, and have them well subbed at bed-time—avoid costiveness—cat very light suppers—lie with their heads high, and in thin night-caps—their food should be always light, and easy of digestion—their exercise moderate—and their minds kept in a state of cheerful case.

§ 2. EAR-ACH, OR OTALGIA.

from ous, auris, the ear, and algos, dolor, pain.

We have before spoken of the inflammation of the ear, § 2. in inflammatory complaints; but there are other causes which induce this complaint; as, is, worms, supposed to arise from the eggs of the sless-sky deposited in the wax, which form for them a nest—2d, a deflucion of bumours—3d, from band bedies presided into the ear.

In the first instance, smoke of tobacco poured into the car, and

afterwards warm oil, prove efficacious.

In the fecond, the fyriptoms are not violent—there are pain and fwelling in the vicinity of the ear—running at the non-cough—but oftener a forenet of the threat—frequent femals and ringing of the ears—with painful fenfations from these which come externally.

This complaint is apt to be occasioned by cold itself, or moist cold winds striking the ears and head, expessed to them without

covering.

Local bleeding behind the ears with leecher, and bliftering there, or the back part of the head, and, at the fame time, the liniment, (No. 110.) may be dropt into the car; fedative formentations, (No. 111.) are ufeful, with fedatives and disphereties, (No. 4 to 10.) given internally.

In the THIRD, the bodies must be extracted in the gentlest manner. We have an account of acute pains, attended with other melancholy circumstances, by FARRICIUS HILDANUS, occasioned by a ball of glass falling into the ear, and continuing

for eight years, cared by extraction.

And we are also told, that some surgeons, mittaking a swelling of the bony part of the ear for some extraneous body, desiroyed the patient, by the violence exerted for its extraction.

Thefe

These cases show the necessity of caution and circumspection, even in cases considered in themselves as trivial.

§ 3. Tooth-ach, or Odontalgia,

from odous, dens, a tooth, and algos, dolor, pain.

This complaint is known by a throbbing, gnawing, darting, or fome other species of pain in the teeth, attended with watchings; sometimes with a swelling of the check, great discharges of faliva from the mouth, &c.

Its feat is supposed to be the nerve creeping over the internal, sometimes the external, membranous covering of the tooth.

CAUSES. 18, Caries, or decay of the tooth or teeth affected—2d, an aerid defluxion, or flux of aerimonious humours, as of the foury, rheumatifus, gout, from the obstructed perspiration—3d, network or hyderic affections—and, 4th, pregnancy.

If it arifes from the FIRST cause, it is generally perceptible to the fight—the caries though sometimes larks between the teeth—formetimes begins internally, sometimes externally—however, when it is not perceptible to the eye, it may be discovered by the tooth being almost pellucid like pearl—or by the shock of some metallic intrument, which increases, or renews the pain—by a feed breath—a heard darting pain from cold water, or cold air received into the month—from a gnawing pain—from the obstinace of the discase, without any confiderable tumor or the guins—to in fituious alcerous gums, having a finall circular tamour round the orifice, and a purulent discharge—from rotten teeth, alcerations have been formed, and swelling on the clim, and about the checks, which are never cured without drawing the tooth.

CURE. Drawing is the first remedy—though, if at the beginning a small speck or portion should be perserved discoloured, that should be immediately taken off, by which its progress would be stopped-applying oil of vitriol to the part associated, or our initiated, and neutralizing it with kali prepared, as dethen filling the hollow tooth with lead, or gum mastich, has been successful apill of opium and camphor, or of opium and calcined quick silver—burning the part affected with a hot iron—cauterizing the eary—applying oil of cloves or cinnamon with lint to the rotten cavity, have been recommended; if this disease returns from slight causes, and many of the teeth are in a state of decay, experience approves of washing the mouth every morning with warm urine—though indelicate, this remedy has it advocates—perhaps, using in the same manner lavender—water, spirits of wine, or brandy, properly diluted, may be considered as good a preservative.

If from the SECOND, it may be discovered by the teeth being in a found state---by the pain not confined to one or two teeth, but the whole jaw of that side being affected; and by the swelling of the gums, attended most commonly with a copious dis-

charge of faliva.

CORE. The gums in the beginning should be scarified, or leeches applied; also mustard plainters behind the ears, long c-nough to occasion a reduces—or, in more obstinate cases, blisters—the mouth should be wathed with warm milk and water—and internally, diaphoreties, coupled with sedatives, (No. 4 to 10.) should be given; smoothing tobacco, chewing pellitory of Spain, ginger, sweet read, pepper, &c. to cause a flux of faliva; applications of warm relinous plaisters, (No. 112.) with opium to the temples should be administered; slannels impregnated with the sumes of frankincense, ander, sigar, &c. applied warm to the cheek, and the mouth washed with spirits of wine and camphor.

If by these means the disease is not conquered, which generally happens to be the case, but the pains persist, and the gums increase to swell, an abscess will be most likely the consequence; under these circumstances a roasted sig should be kept upon the part to promote suppuration, which once accomplished, must at a proper time be opened, cleansed, and healed, by the applications of pledgets, dipped in a mixture of honey of roses and tincure

of myrrh.

If from a defluxion of any specific humour, we must proceed as in the ear-ach (348.) from similar causes, making use of those applications calculated to alleviate the local assections.

If from the THIRD, it generally yields to a course of antispalmodic and sedative medicines, such as we find advised in hyste-

ric affections.

If from the FOURTH, there is no remedy, particularly in habits full of blood, so efficacious as bleeding.

6 4. PAINS IN THE SIDE, OR PLEURODYNES,

from the Greek words pleuron, pleura, and odune, dolor, pain.

DESCRIPTION. This dilease consists of pungent pain affecting the cheft on one side, attended with difficulty of breathing, but without any acute fever, by which it is distinguished from pleurify.

CAUSES. 1st, Too great fullness--2d, worms--3d, spasms --4th, adhesions--and 5th, flatulence; to the cure of which

must our remedies be adapted. -

If it arises from the FIRST, it may be discovered by the pain not being deeply scated, but affecting only the intercostal must

cles,

though accompanied with a cough, still the pulse is unaltered, nor is there any febrile heat; it generally originates from catching cold, or an obstruction of the menses.

CURE. This Nature often performs by a return of the menses, and indeed it will in healthful habits precede their ap-

pearance.

If from the FIRST, thin spare diet, gentle diaphoretics, (No. 1. 6 to 10.) and bleeding, are highly serviceable; volatile liniments, (No. 107.) mustard plaisters; warm sennels impregnated with aromatics, or warm water; bags of hot salt, or bladders, applied to the side, will expedite the cure---but should they fail, local bleeding, by cupping, and blisters to the part assected, we must call in aid.

If from the SECOND, there generally attends an erratic fever, but not of the inflammatory class---with a dry cough, pleuritic pain of the fide; and worms are foractimes evacuated---in the breath there is a particular offensive smell---but these happen chiefly in infants.

CURE. Though one bleeding may be fometimes necessary, if the fever runs high, to abate its violence, yet the chief dependence is on catharties, (P. 171, 172, 173.) emetics, (No. 11, 12, 38:) and vermifuges, (197.)—the purgatives though should be of the milder class.

If from the THIRD, it generally proceeds from severe exercise, or strains; and is muscular—for pains in the breast from such causes are attended with such sensibility of the part affected, that it cannot bear the touch, and seels as if the part had been bruised.—This though is seldom attended with a cough.

CURE. Bleeding---with emollient formentations, (No. 111.) oily liniments, (No. 107.) and gentle purging, (No. 3. 10 to 24.)

If from the FOURTH, as it proceeds from the lungs adhering to the pleura, occasioned by preceding inflammation, it is often attended with a dry cough; fometimes with bloody spits; febrile affections coming on after eating, without tweating; but with difficulty and shortness of breathing; great uncalmess in lying on the side affected, and pleuritic blood.

CURE. The cause is irremediable, alleviation of the oppressive symptoms is all for which we can hope,—and this must be attended by bleeding, diluent drinks, oily enrulines, or lintuities, (No. 81 to 84.) emollient decoctions, (142.) gentle fedatives and diaphoreties, (No. 4 to 10.) nitrous medicines. (No. 2.) and a thin, space diet—and all such remedies as take off salues from the vessels, and render the circulating stails thin.

If from the FIFTH, the pain in the fide is fudden, and gente,

foon vanishes, and resembles the cramp; though sometimes it will be so violent for some minutes as to become intolerable; the pulse is small and flow; there is no cough; but the pain is so troublesome that it impedes the breathing. This most commonly arises from cold, and chiefly affects the melancholy, hypochondriacal, and those who devote themselves to study.

GURE. Warm fanners, bladders filled with warm water, or bags of hot falt generally remove the complaint; and it will now and then be necessary to give some nervous tincture, (149,

1500)

But these pains, or slitches, have generally indigestion for their caute; therefore, to prevent their return, we must proceed in the same manner as we advise for alluming the digestive organs in preserving their functions, see Dylpepsy, and increasing their power; is order to prevent an accumulation of offensive matter in the same parages; or crude chyle from being thrown into the mass of circulating sluids.

If pains of the file should arise from the action of any specific

actimony—we must proceed as before directed, (556.)

§ 5. PAINS OF THE STOMACH, CALLED GASTRODYNIA.

from gaster, ventriculus, the fornach, and onune, dolor, pain. .

Thefe, according to the peculiarity of the affections, have been

differently denominated.

When there is an acute and confiant pain in the region of the flomach, unattended with fainting, as in the CAPDIALGIA, or fever as in the GASTRITIS, (295.) often attended with a fwelling in the flomach, it is called GASTROPYNIA.

When there is an uneafy tenfation belonging to the flomach, or epipathic region, attended with a degree of faintness, as it a fwooning would come on, CARDIALGIA, from cardia, os ventriculi, the mouth of the flomach, and algor, dolor, pain—for this is deposted to be an affection of the upper ordice of the flomach.

When the principal formation is a finite of heat in the flomach and gullet, which formationes arises may the fances, unattended with any acute fever, Praosis, beart-burn, from pur, ignis, fire,

or its effect, heat.

However, we think in a practical view, they may all come under one head, particularly as the modes of treatment depend upon the specific castes from whence they proceed—we mould fay therefore,

PAIN OF THE STOMACH, OR CASTRODINIA, is discoverable by an acute and constant pain, aratterized with any febrile affections—fometimes affectioned with a propensity to minerings,

at others with a fense of heat there, and in the gullet arising now and then to the fauces—then called beart-hurn, and not unfrequently with a confiderable discharge of faliva from the mouth—then flyled WATER BRASH, or BLACK WATER.

CAUSES. 1st. Foulness from indigestion—2d, statulence—3d. bile—4th, poitons—5th, hard subtances taken into the no-mach—6th, inflexion of the lower part of the breast-hone, (called xyphoid, or ensiform cartilage, from its being pointed like a sword)—7th, gout, worms—8th, debility, ulcers, or exceriations.

CURE. From confidering the causes in the first five, the indications are very nearly similar, except in the flatulent, to evacuate the contents, and so to invigorate the stomach and intestines, that digestion not only may be properly promoted, but the remain, or what is indigestible, may be carried out of the machine

regularly by the increased power of the intestines.

If, therefore, it arifes from foultrifs of the flomach occasioned by indigestion, which passes not off foon by vomiting, or purging, but continues, the ornices of the flomach will be contracted, and prefling upon its contents, occasion fevere pain, with a fenfe of weight, reffraining free respiration; sometimes the pull; will be hard and quick; at others depressed, and slow-this will be the case where the complaint is recent, and proceeds merely from indigettion, and matter which the stomach contains being in a crule flate only; but if it is vifcia, acrid, bilious, putrid, or rancid, there will be a difagreeable taile on the palate-foul tongue -unpleasant eructations, added to the uneatiness at the stomach, naulea, and load in the region above the navel, with a lofs of appetite; beildes, if the matter is acrid, there will be a heat in the flomach, the nature of which will be denoted by a tafte in the mouth if any thing is thrown up, whether acid, fale, bitter, rancial, or oily :- in cases where the matter is merely viscial, there is a kind of watery infined tafte in the mouth only.

Which ever of these causes are prevalent, if the habit is costive, I clear the first passages with some opening medicine, (No.

· 108, 10g.)

Afterwards wash the stomach well with warm water and oil—chamomile slower tea drank plentifully—or stimulate the top of the gullet with a feather, or prescribe an emetic, (No. 11, 12. 38.)—if great expedicion is requisite, a few grains of white or blue vitriol, (No. 259.) should the cause be mere load from indigestion; these will be to scient, giving for a lit le time a few drops of e-lixir of vitriol in cinnamon sea twice a day; but should this circumstance often occur, from the debility of the coats of the stomach, I have reconnic to better stimulants and chalybeates, (No.

or to 65.) and recommend riding exercife, or failing—also the nile of some chall beste water, particularly those of Bath, which contribute much to invigorate the tone of the stomach—but should the estending cause confish in the quality of the oscending matter, such things must be prescribed as counterest their proprections.

if it is of an acid nature, iniquella, absorbent earths, alkalines, or these naturines termed anacids, may be applied to (1911.—if acrid, the Romach thould be well washed with weak chicken broth, or we in water alone; then goutle aperients should be giv-

en, (No. 3. 22 to 24.) and occationally perfifted in.

If merely vijeid, Iaponareous medicines, (No. 103.) are ufe-

...Il rancid, or putrid, the antalkalines, particularly the mineral

acids, (190.)

And in all these coses the stomach should be invigorated with stimulant bitters, &c. advised (353.) and such mode of living prescribed as will prevent the generation of these offensive materials; avoiding such viands as are opt to turn acid, all aline, viscid, or rancid; and perhaps the only thing we can depend upon for completing the cure, is a course of such mineral waters as upon, trial best suit the constitution, which can only

from experiment be afcertained.

If the complaints wife from flatulence, it is caused by wind distending the Romach, and throwing its orifices into a contrasted state, hence there is a violent tensive pain at the pit of the flormach, with dissipative of breathing;—the pulse grows small and depended—the extremities are cold, with great anxiety—and the body is often folicited to bend forwards, to promote the emission of wind; which always brings some alleviation—in this case the region above the meet can bear pressure with the band, which it cannot do in inflammation of the stomach, nor pain from some other causes.

CURE. In full fanguinary habits bleeding is adviseable;—and to remove codiveness alytters, (No. 25, 26.) which is very often an attendant; notwithflanding which, should it continue, opiates (No. 142.) are requisite; though, in slight cases, peppermint water will be sufficient—till the pain has totally ceased for a day or two, cathattics, even the milder ones, should be avoided. In order to prevent its return, the patient should abrain from all food difficult of digestion; all crude, slatulent, or leguminous vegetables;—the body should be kept open, and a course of bitters and chalybeates be perished in for some time.

If from acrid bile the pain is extremely acute, accompanied with vomiting of green materials like a leak, or verdigrease—

formetimes yellow, with fuch tenderness above the navel, that the part cannot bear the least pressure—there is extreme debility, with great dejection of spirits; indeed the pain is sometimes

fo acute as to bring on convultions.

We must proceed as recommended (3.53) where acrid materials were the cause; afterwards, when the domain is perfectly clearfed, opiates must be taken internally, (1.52) or by way of at ther; and perhaps it may first be necessary to premise bleeding, if the pain is extremely acute, to prevent indemnation.— The bilious colic seems to have the same origin, the seat of the affection only differing -to that, therefore, we must refer.

In safe of prifon being the carefe, we must proceed in the fame number as in inflammation of the flourish from the fame fources—in gout or worms—facility and ferviceable as are ad-

viled in those particular diseases.

If from dibility, we must proceed as directed (353:)

If from extransous bodies, which are finall, and thant, we must have recourse to emetics—if long and pointed, the stomach should be kept distended with materials of the demulcent class, so that an opportunity may be given for them to pass through the lower orings of the stomach, and along the course of the intestines; for if emetics are had recourse to, there is great danger of their getting across the upper oringe, or slicking in the passage, and most probably terminating satally.

It from the inflection of the inver part of the breast-bone, there is a constant pain of the flomach, attended with vomiting, loss of appetite; and from a continuance of the disease, a confumption, called Atrophy—the food and liquids are immediately rejected as soon as taken, and the pain continues to torment the

unhappy patient for years.

· Cupping-glaffes applied to the region above the navel, and

afterward, an aftringent plaister, have been advised.

A reduction of it, by the manual operation of a skilful surgeon, has been affected by Bonetus—as for my own part, palliative remedies I think the only things to be depended upon—the
utility of which I have experienced. Keeping the stomach as
empty as possible, eating small portions of the most easily digestible food, of en in the day—refraining from all which are slatulent—taking very moderate exercise—avoiding costiveness, and,
in size, so conducting the patient, that the stomach shall be but
thightly didended, is all that can be done in this case.

If from exercitaions, or alcerations of the stomach, or its lower crissee, it is the most obstinate and dreadful, for this may continue for many years—this is known by extreme increase of heat and pain on taking any thing acrid or hot—vomits here may be-

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come detrimental, and dangerous in the extreme—in this case nothing can be done but giving all those things which are soft, mild, and sheathing; and what bids tairest for relief is living

folely upon a milk diet.

Besides what we have here enumerated, the heart-burn will be attended sometimes with an essua of clear lymph like saliva, sometimes tasteless, sometimes acrid like the taste of lime, and comes up at intervals in considerable quantity. This arises from a spassmodic contraction of the somach, and increased action of vessels which secrete the thin sluids of the stomach and falivary glands, (20.)

In this case, the rough acerb fruits and warming vegetables may be useful, as horse-radish, mustard, quince, sloes, mediars, &c.—watery fruits and vegetables should be particularly avoided, as cherries, cucumbers, melens, and such like; and attring-

ents flightly cordial, (No. 61 to 63.) exhibited.

6. Colic-Colica,

fo called from the colon, (43.) one of the intestines, being consi-

dered as the feat of this complaint.

DESCRIPTION IN GENERAL. This is a painful complaint of the intestines, originating from a constriction, or obstruction in some part, or parts of them, brought on by some internal stimulus, attended with an acute burning pain of the abdomen, particularly running round the navel, distinulty of breathing, heart-burn, nausea, or vomiting of a bilious or viteid matter, costiveness, the appetite and digestion weakened---a distension and instation of the lower belly—thirst-high-coloured, or yellow urine, often an obstruction in making water---hickorychining---delirium---convulsions, a rupture of the intestines, or mortification.

CAUSES. The remote or inducing are, spasmodic affections, or biliary concretions, stopping the ductus communis choledochus, (36)--acrid bile--different kinds of soul offensive materials in the bowels--hardened faces--worms--ruptures--remains of folid food--earthy or stony concretions lodged in the intestines--compression of them formed in any of the contiguous viscera--introduception, or the running of one intestine into another, and there confined by some stricture---a thickening of the coats by scirrhus, cancer, &c.--particles of lead---unripe acid wines---or drinking too freely of things acerbly acid---or, in fine, whatever is possessed to the power of inducing the

CAUSE, proximate or immediate; which is a constriction or obstruction in some part or parts of the alimentary canal, com-

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monly the upper or lower orifice of the stomach, the lower portion of the duodenum, (42.) at the valve of the colon, (43.) and at its flexure which it turns up under the short ribs on the left side, (43.)

CHARACTERISTIC SIGNS. Pain of the abdomen, or lower belly, running round the navel, attended with vomiting

and costiveness.

CURE. The indications are, a removal of the constricting or obstructing cause, by taking off the fraims, and evacuating the irritating matter, from whence they deduce their origin.

We have before treated of the inflammation of the bowels, between which, and the colic attended with local inflammatory fymptoms, fome make a diffinction; this may be fyltematically right, but cannot be of any practical utility; for the mode of cure must obviously be the same---though we must observe, that the colic with any acute fever, or quick pulse, heat of the whole body, sweat, &2. appears only to be a slight inflammation of the intentions from some local cause, not producing general inflammatory symptoms.

But the colic pain will form-times be attended with great degree of flatulence, from the air in the bowels being rarefied, and expanding itself---hence pain, differnion, coffiveness, and rolling of wind in the lower belly---if the continuition of the bowels continue long, their motion downwards, called periflattic, will

be inverted, and vomiting the confequence.

That it is from wind which occasions the strongest symptom, is very obvious, by the alleviation from pain by the discharge of it downwards; from the pain pursuing the whole tract of the colon, (43.) or running round the lower belly, appearing also to affect the stomach; but that affection subsiding by the passing down of wind, or its change of situation; on pressure by being mitigated rather than increased; and by not being attended by any remarkable thirst, or alteration of the pulse.

At other times, it will have for its affociate bilious vomiting, which is difficult to reftrain; the patient will also have sometimes a number of bilious dools--when vomiting of green-coloured matter is the leading symptom, these attend heart-burn, loathing of food, hoarieness, biccough, heat, thirst, and bitterness of the mouth-- the urine is high-coloured, and made in

fmall quantity.

When bilious flools, the pain attendant generally affects the whole intestines, particularly the duodenum, (42.)---the lower belly is neither tense nor hot, as in inflammation of the bowels ---the patient is affected with giddiness---the pulle is quick,

though

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though neither hard nor tente--- and this difease is often succeed-

ed by the jaundice.

In all these complaints, where the pain is very scute, bleeding should be had recourse to, though no inflammation should actually exist, in fall habits particularly, very early to prevent that symptom supervening.—Emellient oily glysters, (No. 25, 26.) warm somentations, friction, and chamomile tea, in slight and common cases, will subdue the complaint—but when more obstinate, checken water should be drank plentifully; then glysters thrown up occasionally, and repeated—if the first does not answer, a second dronger, (No. 114.)—should these be inestications, oily pargatives may be tried alone, (No. 66, 99.) or mixed with Rochelle falt, and continued till a free evacuation is produced—cather oil is the most efficacious, as it often alleviates pain before it produces any evacuation, which it also does very quickly.

Sometimes liquids will be rejected, purgatives then in a folid form must be tried, (No. 115) and continued every hour till the wished-for effect occurs—but thould the attendant pain be extremely severe, with catharties we may couple opiates; or sedative medicines may be given sirtly, and a small time afterwards, purgatives—by these means sometimes the gentler purgatives will answer every purpose—bags filled with sait, cats, boiled

bran, or water made hot, may be applied to the belly.

But should there be any fuspicion of influmnation, the stronger stimulant cutharties must be avoided—the Epsom salt solution, (No. 97.) is preserable to other purgatives; for, distusted in that way, it is always pleasant, and gentle in its operation.

We should always inquire in these cases, whether there be any rupture; for, from the strangulation of the intestines pushed out

into the fac externally, this complaint fometimes arifes.

In order to Hop the vamiling, the faline draught in a flate of fermentation (No. 59.) should be tried—fedative glyffers, (No. 116.) and plaisters of michidate, may be applied to the flomach—leaves of common garden mint, boiled in port, and laid on the pit of the flomach and wriffs, have been found formetimes super-

rior to every other application.

Should there be any appearance of bile copiously discharged, softening glysters, such as decoction of linfeed and marsh-mallows, with oil, should be had recourse to—acidulated drinks also, with lemon or orange juice, vinegar, apple-water, &c. chicken-water, sedative emultions, (No. 81. 33.) to which may be added thirty or forty drops of the tincture of opium, if the pain is violent—and the patient should be put into a warm bath, and remain in it so long as he can bear it without distress.

If this complaint, from a bilious cause, fould return, which it is apt to do, a course of supernacrous and deablitment medicines, (No. 117.) with Seltrer waters, or the water of Bath, or Aix la Chapelle, should be had recourse to, in hopes of performing a radical cure.

So difficult is it fometimes to procure a pallage through the intellines, that when the gentier cartarries fail, the mod powerful ought to be tried, (No. 128, 115.) to which may be added from half a grain to a grain of opium; or op ares may be given with liquid purges, No. 07, to 99.) to accomplyficis, two drams of the leaves in decochion, or fancke, or things which act by their weight, have been recommended, quickfilver, two or three ounces, fwallowed in a little broth every two or three hours, or leaden bullets; or taking the pari at out of bed, and defining cold water on his legs and feet, while he flands barefooted on a boold flag, has been attended with fuccess.

A purging once procured, it should be continued some days by the nie of cathactics, giving opiate, at night, until the foreness and differsion of the belly go off, and no hardened seces ap-

pear in the stools.

§ 7. NERVOUS COLIC.

In this complaint, contrary to the other, the vascular fystem feams but slightly, if at all affected; for the pain will continuo extremely severe for five or fix days; sometimes for someteen or fixeen; yet the pulse will not be quicker, or more disturbed than in health; nay, indeed, it has been sometimes slower.

It is called RACHIALLIA, from the Greek words ranks, spina doish, the spine of the back, and elgos, dolor, pain; because the origin of the complaint has been stributed to an affection of the spinal marrow—also the course of locations. Because there it is endemial, or peculiar to the country—Drivenshire and West Indian course, from its being common in those countries—painters, from its being common in those countries—painters, from its frequently affecting the makers of white lead, or the reception of the particles of lead into the habit.

DESCRIPTION. This complaint is attended with very fevere pains in the back and loins, as if it was in the cemer of the mefentery, (46.) which do not increase on pressure—the navel is very often drawn inwards, and the intestines fometimes also to the spine; so much so, indeed, that the society of gly-flers has been in practicable—the body is costive, and the complaint extremely obstinate; sometimes terminating in teapor, or

numbneis

numbres of the hands, and palfy; at others, in chronical fixed contractions of the limbs.

CAUSES. The remote or inducing are, particles of lead received into the habit—or the fmoke from lead—or drinking water which runs over its ore—unripe acid wine—cyder—punch—and white wine not fufficiently fermented—cating or drinking too feely, or too frequently of things acerbly acid. The provimate or immediate, fimiliar to that of the colic, (356.) and the characterific figns also, if we add, the pain creeping more particularly to the loins and back, with a retraction of the navel, and fometimes of the intessines, inwards.

CURE. Become the complaint is confirmed, in the beginning, fuccess may be expected from the application of such glysters as were before prescribed, (No. 25, 26.) adding to them castor oil, and keeping the body open with emulsions of the same oil, (No. 66) with which two or three ounces of tindure of senna may be mixed.

Gold must be avoided, and a very light easily digestible diet

firially adhered to.

But in the more advanced stage, where there is generally a vomiting of green bile, the discharge is to be encouraged by drinking freely of thin weak broth—the hardened excrements evacuated by repeated glysters—an alleviation of pain procured by more than common doles of opium, (152.) and these repeated—the belly must be fomented with warm fomentations, (No. 85. 111.)—warm bathing partially used—and the umbilical region blistered.

I have sometimes found great benefit by opiated emulsions, (No. 118.) given till stools were procured freely; afterwards opiated antimonials, (No. 119.) occasionally giving the emulsion.

In Charlestown they adopt the following scheme:

First, they bleed, then give the glyster, (No. 114.) and repeat it two or three times, till a stool or more are procured—if this does not alleviate the pain, then an opiated glyster, (No. 116.) and the following morning exhibit the vitriolic mixture, (No. 120.)—the effects produced are generally a discharge of a great quantity of actid bile, for the first four or five days, upwards and downwards, which by degrees grows less, leaving gradually only a slight nausea, a few yellow stools daily, and fometimes not any.

Broth, gruel, and panada, are allowed as det—if fuch food is loathed, about the eighth day, bread and boiled chicken are allowed, with rum plenticully diluted as beverage—all fermented liquids and acids are prohibited, and fo is four punch, for

lome

fine months; and the patients return to their common mode of living by flow degrees.

If a pair in the located continues, which is formetimes the cafe, remined is adviced, and a plainer of guidanum applied to

the stomach.

Trings detth by these means should be avoided, not unforgenity a poly functions. This complaint has been relieved, fourtimes exceed, by rubbing the limit and down the back along the folios, with Rubadoes for and rum, or rock oil. [10].—the Backidees for, or bolton of Pero, taken incernally, has been thought ferviceable. (No. 121.)

But thould thele not increed, change of climate, for voyage, or the natural hot boths, are the only remedies from whence

fuccess is to be expected.

§ 8. PAIN OF THE LIVER, OR HEPATALGIA.

from exar, josur, the liver, and algos, dolor, pain.

When onin a "As the liver, as well as fileen, it is very often impoliate to difficult them from fome of the species of colic, during the live of the patient; nay, in both, some practitioners think it unrecollery, fines they require the same mode of cuts as the colic from a bilious cause, (358, &c.)

But as there arise from different can be, it may not be added to describe fines of them; viz. their which arise from selient of the liver, (32), --address as of the gall dutte, (33) from very visid be-the all Hadaer (35.) be-

ing also full of bile - and good faces, to call. I.

When pain of the limit of the origin to scatternoster, it

is often to I with the felt agine for note as:

DESCRIPTION. There is a tenor and burdeds on the right add below the dost lib - Teste of weight, with a did and tearine pain, which is a adapt—the ration bearbes with difficulty, and has a der cough—and, a ser calling moders elv, there comes on a broking, and forth of produce on the florest, with an increase of the calculus a broadens by the with each on his best like—the countenance is yellowish, poin, and follow—the arises a ten of an orange colour, and deposits a thick makes relien a mineral sea generally the first apparances, which, it the complaint conclusion, as is too frequencity the case, the feet are relied with a fort party swelling the function parts fall weak—and the conclusion is, a dropfy of the best, with a resoluter stover.

When the custo is a restriction of the Garl brets, from billary or whild obtained ions, the semptons of a tchirrhous liv-

er, which come on in the beginning, attend but in a much flighter degree—belides, there is a flushing heat of the face, with realise's and heat coming on now and then in the palms of the hands-an irregular thirst-dryness, and bitter taste in the mouth -a dry cough - vifeid faliva-lots of appetite-heart-burn -wearinefs and heavinefs of the limbs-increase of pain on touching and proffing the left fide-and the habit most common-Iv cossive -in this case the hardness on the right side is not for film as in the former, nor are there any party twellings, or hectic fymptoms.

When it arises from GALL STONES, there is a deep-feated and excruciating pain on the right fide of the flomach, extending to the back, about the place where the ductus communis choledochus, or duct of the gall-bladder, (36.) is inferted into the duodenum, (42.) which remits and increases; the patient complains of ficknost, and vonsits much-the right side is distended with flatulence - the belly conlive - the excrements pale-coloured. fometimes white-the pulle is weaker, but scarce at all quickened, unless the pains are very violent, and continue long-indeed, the violence of the pain being unattended with fever, and quickreft of the pulle, is confidered as the certain symptom of this difeafe- the patient, either in an erece posture, or lying on the left fide, feels much uneafinels-honce becomes rettletsthere attend also difficulty of breathing - heart-burn, and sometimes convultion -- at fall the urine is pale, afterwards yellow -and the tkin and white of the eyes have a jaundice-like appearance - the pain at last vanishes fuddenly, which is formatimes fucceeded by a loofenels, by which the gail flones are thrown out of the habit -and the yellownels wears gradually away.

CURE. Pain in the liver from februbohity, 361) is apt to attack gluttons-hard drinkers-their who had indefent fluggith lives -- and also arises from suppression of some han or hages --bruiles upon the right fide -- and very often in these afflicted with long-continued intermittent fevers -- and generally proves fatal, when once completely formed-athorign, it attacked in the be-

ginning, it may be fometimes prevented.

Decoclious of vegetable aprients, with the more powerful attenuating gums, (No. 117. joined with mercerials and catherties, (160, 172 to 173) are ferviceable; also grafs-toots, danietion, chaire, amneriacum, myrth, thubath, aloes, calenal, fmail doles, not to fallvate; hemlock, (152. 154) in all curable cases is very useful.

In constitutions confidered as dry and believe, (60) decoctions of the mild opening roots, gest's whey, and contained iron, 613) Jen a mand and

In the cold and obleg matic (60.) the mode here recommended will be proper when the complaint acides from obligations of the beliary pores; but, in delicate and initiable habits, spalmodic affections will so netimes be the cause, sed tives and antispalmodies may then be joined with the aperients, alasetida, comptor, (149, 150.) or with opium, (152.)—and when, by these means, the bile has passed into the bowels, a course of bitters and steel may be necessary to complete the cure, (No. 61 to 64.)—taking care always to keep the body open with such medicines as are best adapted to move the bile. (No. 108, 117.)

Bath water, and chalybeate springs in general, are beneficial

and proper to prevent a relapse.

When it arises from GALL STONES, we must endeavour to promote the expulsion by long perseverance in the use of emollients, (142.) and gentle catharties, (170, 171, 172.) (No. 66. 98, 90.)—warm baths afterwards, occasionally repeated, in which a cathartic may be given—this mode has proved successful—vemits, and strong expiration, with glysters of fresh usine, and fage infusion, have fortunately succeeded—opiates thould be administered to alleviate the pain, joined with aperients; because they promote at the same time a relaxation of the dust—extherial spirit of turpentine, (No. 122.) has been recommended as a folvent.

In habits full of blood, in any of these complaints, bleeding may be had recourse to, lest inflammation should be the confe-

quence of the violence or long continuance of the pain.

Old people and women are most subject to this complaint --those who lead sedentary lives, drink much of strong ardent spirits, seed on viscid, coarse, and dry aliment, or are subject to
the stone and gout.

In order to prevent a return of these complaints, gentle exercif-, particularly riding on horseback, should be persevered in ; light easily digestible food taken, avoiding all that is viscid.

§ 9. Pain of the Spleen, or Splenalgia.

from folen, the spleen, and algos, dolor, pain.

Here, as in the liver, the dilease arises from schirrhosity and

obstruction.

DESCRIPTION. When from the FIRST, it is discoverable by a hard tumor occupying the feat of the spleen, (38) and refabling its figure, attended with a sense of weight---the tumor is sometimes wonderfully large---succeeds a quartan intermittent, and often runs into a dropfy of the belly---the complexion of these labouring under this complaint is of a lead colour---

they grow very thin—are opposed a with difficulty of breathing—and have a fente of weight, drawing the throat downwards towards the left file—they complain of opposition at the formach after easing—et last their text become pary, and they fometimes have olders of the legs.

When from the saccest, it does by no means refemble the figure of the lplace, neither is it hard or circumic ibed—the pain is more acute; which, on the feinbus being formed, be-

comes dull -- attended with a finde of greater weight.

In this there is perceived a load on the left ride, afterwards force acute pain, particularly rained in running and walking—the colour of the race changes to one more livid—there is an universal laffitude—difficulty of breathing from exercise—fometimes a dry con h—now and then a radioination of the heart—cruptions break out—the patients become hypochondriac—have revenous appetites, &c.—and the differie is extremely obfinate.

CURE. The mode is fimilar to what has been delivered on

the pain of the liver from obstruction. (362.)

CHARACHERISTIC GENERAL SIGNS. Those of the forcide causes must be recollected from the particular descriptions—the general ones are, as uneasy, dull, tensive sometion, on the right or less, according whether the liver or spices is affected; being free from that species of sever which attends in-flammations of those organs.

§ 10. PAIN IN THE KIDNEYS AND URETERS, OR NEPHRAL-

from nothron, ren, bidneys, and alges, dolor, pain.

This diffuse proceed either from in all land-like appearances, or from a flow thickness affecting the kidneys or ureters, (48. 50.)—in the last case it is called GRAVER, in the last STONE IN THE KIDNETS; both which we shall treat under one head, as the mode of treatment of the former is finillar to the more gentle

method used in the latter.

DESCRIPTION. The gravel is most common to old men, the studious and sedentiars, and those whose trades oblige them to sit long confined in one patture, as coblers, weavers, watchmakers, &c.—soldern anects the kidneys, but much more commonly the uncters and urethra, (31,) occasioning oftentimes very great pain which abating, small stones like lentil-seed, but rough, sed, and very hard, are passed at that time with the unine—these feldom likek in their passes, and are scarcely dissolvable by any known lithout spice. (198.)

When

When there is a stone in the kidney, there is generally an exornelating pain in the loins, fixed and permanent, on that fide where the flone lodges-the patients complain of heat-the body is costive-and the symptoms are aggravated after catingwhen it alls into the ureters, the pain is increased, and extends along their course obliquely in the beily over the hip towards the bladder-men have at this time a painful affection, or drawing up of tefficie, women a numbries of the thigh and leg-nauica and vomiting frequently occur—the urine is in part suppressed, and puts on various appearances; at first it is watery, afterwards more copious and turpid; frequently hot, and often bloody, or purulent -a difficulty of making water, or rather a total inposedion, comes on-great drowfineis-inflammation-ulceration-and confumption.

But it mud be observed, that a stone may be lodged in the kidney wit tour producing any uneafy fentation, unless moved by a hot regimen, or mode of living, violent passions, strong exercite, or jolting in a carriage over rough flony pavements.

CAUSES The remote or inducing are, luxurious living, with wea's degenive powers-gout and rhoumatifm-old age-fedentary site-keepin much in bed, or in an horizontal politiondrinking wine loaced with tartar, or water full of earthy or fandy matter-peculiarity in the conflictation to form this flony fubflance-or an hereditary taint. The proximate or immediate need no specification

CHARACTERISTIC SIGNS. A fixed pain in the region of the kidneys and unevers, unattended with any acute fever, fuch

as accompanies the inflammation of these parts.

CURE. the indications are, to abate the uneafy fymptoms, by taking off the four-nodic affection of, theathing and relaxing the pasts, and facilitating the progress of the offending cause, that it may be exacuated-which purposes will be promoted by bleeding, emollient and demulcent decoctions drank plentifully, fedutives, cheeks opiates, oily emultions, and mild aperients, &co.

(See Inflammation of the Kidneys. 243.)

All heating or thinulating diureties are to be avoided, particularly there calculi are fixed or very obitinate to remove; for they are apt to aggravate the painful fenfations, and bring on infaramation -infution of wild carrot-feed, (No. 123.) has been known to give confiderable cafe-a folution of kali impregnated with fixed air, (10), given two or three times a day, and carried as far as the flomach will bear it, is in this cafe peculiarly applicable—the leaves of the bear's wortle berry, (139.) is here also beneficial-from decortion of raw coffee, twelve berries boiled in a quart of water till it becomes of a deep greenith colour, to

eight or ten ounces, with twenty drops of athereal spirit of nitic, twice a day for two months, great relief has been derived.

Still, forp leys, (199 . taken in milk or veal broth, or forp and lime water, (199.) are confidered either as perfect followers, or rendering the rugged furfaces and four points less capable of injuring the fensible membranes, where these hard bodies pass

through or lodge.

But fometimes a small stone will pass through the ureters into the bladder, and from thence makes its exit: here then the disease terminates in the most tavourable manner; but if it should be too large, it remains there, forming a basis, called Nucleus, for a larger stone---indeed, any hard substance lying in the Hadder will give rise to this complaint in conditutions replete with stony matter---in this case it is termed,

STONE IN THE BLADDER, OF LITHIASIS,

from lithon, lapis, flone, . "

BESCKIPTION. In this difease, there is generally a pain in the bladder, of pecially about its neck, and of centimes bloody urine after riding on horseback, on being joited much in a carriage, a fense of weight in the perineum, or part immediately before the anns, with an itching of the glans penis, (55) a slimy sediment in the urine, and frequent stoppages in making water.

Ent if the stone should be smooth, of a round form, it may lie a considerable time before it is perceptible to the patient, till by its increase of weight, acquired by accession of fresh matter, it creases needly fensations—but should it be angular, or have a roughed surface, yet small in size, it generally occasions pain and bloody urine, or a discharge of slimy sluid, with a fruitless effort to go to shoot, called tenesmus, and dissipulty of making water.

All these symptoms though are fallacious--examining therefore with the instrument called a STAFF, used by surgeons for discovering the stone in the bladder, is chiefly to be depended apon; and I believe, when one is found too large to pass, cutting is the only remedy, which must be committed to the hands of a skilful and judicious operator.

Of the cure by internal remedies, we must refer to what has been said above in the cure for pain in the kidney and ureters,

proceeding from calculi there.

In this place may be inferted those complaints where the uri-

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nary passages are assected, and properly divided into three, according to the nature of the assection --- as

I. A Suppression or Retention of Unine,

named INCHURIA, from in, cohibeo, to refleain, and ouron, urina, urine.

2. STRANGURY---STRANGURIA, +11

from frank, gutta, drop, and aureo, to make water---when water is made by drops as it were, and there is a perpetual propenfity to make its

3. DYSURY--- DYSURIA,

from due, infeliciter, painfully, and ourse, when the fraugury is attended with heat, or a fense of scalding.

The FIRST may arise from inflammation of the kidneys, or a flone, and becomes a symptom, and then must be cured as advised in cases of replicitis, (342) and nephralgia, (364) but force-times it derives it, origin from naccas thrown into the veills of the kidners, (48) in ruch a degree as to hinder almost the total fecretion of urine.

DE Call'Iloci. In this case there is generally a small quantity of turbid uriae made, without any pain of the region below the navel, or swelling over the bone at the lower part of the beliy, casted on pubis, or any signs of the stone or gravel lock a dail, beavy pain over the losis; and this happens in confinctions which are generally phlegmatic, (60) mucous dif-

cales having preceded, and usine before made loaded with mu-

Cut.

CURE. Simulating dimeries, (175, 176.) fach as mustard, he is much, with foods; also foup, (177) in order to clear away the muchs, free the univery veilely, leave at liberty and folicit to 1 orders veilely of the kinneys to perform their calco; for in the critical and bittle or no unine comes into the bladder. We must occerve, that when the furpress is total, there can be little or no more of giving relief; it is only in cases where it is partial, that our expectations with faccels can be flattered.

ing the prime is retained in the bladder, we observe a swelling the lowest past of the belly above the bone fituated at the bottom, at most with part, and often a sense of fulness, and

pichare at the neck of the bladder.

CURE. Whatever the cause, the mede of relief is similar; if the pain is great, blood should be taken away, and teribinchinate glotters, (No. 121) thrown up; somentations (No. 85, 111.) should be used to the belly; the patient should be kept persectly quiet; the CATRELER, or an instrument to draw off the uniae, be as soon as possible made use of; and should the retention return in eight or twelve hours, the operation must be repeated, and this occasionally till the cause creating it be removed, which may be various, and depend on other distrates of the machine—as paralytic as Sim of the bladder—swelling of the piles—inducated exerciseus—fungus swellings in the uncers, sorrhus, or cancer of the bladder—pregnarcy; for the cave of which we must apply to these things which are advised in such of these complaints as appear to be the acting cause.

In THE SECOND AND THIRD DIVISION We find water paffes

from the bladder but with painful sensations.

DESCRIPTION. Before the effort to unload the bladder by pathing urine by drops, and with great pain, and fometimes fealding, the flimulus, after a finall quantity of water has been made, goes off, and foon returns; the feverith affections are increased, the skin grows het, the belly swells, at the lower part, particularly the penis, and the part running to the anns, appear full; the body is in general coffice; and there are frequent a forts to go to stool; there is also a perceptible pain in the back and lower part of the belly, an unradiness at the pit of the stomach, and vomiting sometimes attend.

CAUDES. These which are considered the remote or inducing are frid to be—an acrimonious disposition of the humours; contharides internally taken; the application of billiers; and rester carried from the kidneys, or translated from any other of the ulcerated viscera; strongly stimulating injections, or venereal ulcers of the urethra, (54) inducing infarination, exposing the anus to the cold air, particularly during the operation of smitt catharities; an inflammation of the rectum, (45.)

or suppression of the piles.

The proximate, or imme diate, an inflammation of the sphindler (31.) of the bladder, or a deprivation of the mucus which defends it from feeling the irritating power of the urine, as it passes through it.

This difease is by no means dangerous, and terminates in the same manner as do other local inflammations, though extremely

rarely in mortification.

CURE. This requires no mode of treatment different from other local inflammations, particularly that of the bladder, (314.)

only we should observe great caution is necessary in attempting to p is the catheter, left we should increase the irritation; and indeed should that operation be impracticable, a puncture may be made into the bladder in cale of great emergency, through the perineum, the part which lays forwards before the anus; fome recommend it over the pubis; but the former is much the more eligible; in these cases glysters of warm oil, and tincture of opium, are highly beneficial.

6. RHEUMATISM-RHEUMATISMUS,

from reo, fluo, to flow down, or upon, as the ancients confidered it to a life from a defluxion of fome humour on the particular part affected. There are two other complaints properly come

under this head, called

HIP GOUT, ISCHIATICA, or SCIATICA, and the LUMBAGO. deriving their names from the parts they affect; the former attacking the hip, ISCHICM, and the latter the leins, LUMBI,hence their derivations—hence the rheumstilm is confidered as general and local; and it is also attended with febrile affections, frequently-fometimes not-hence fixled acuts and chro-

DESCRIPTION. When it affects the habit generally, it begins with a coldness and thivering, which are succeeded by heat, reftlettness, coldness, and heaviness of the limbs; the body is commonly coffive, the patient complains of thirth, and the

pulse is quick and hard.

To these succeed in a little time acute pain, attacking particularly the large joints, tendons, and their expanions running along the courte of the mufel is; which pain is increased on motion, often changing its fituation, and where it fixes there comes on fwelling and information; it foractions attacks the head and flomach, and very often all the febrile fganptoms will go off. and leave the pain remaining. The blood taken away has the appearance of that of plannitic patients; this is called the acute RHEUMATISM; but when it is not attended with febrile affections, the pain flies from one part to another, giving a fende of fliffness to the muscular or ligamentous parts, and is foldom attended with any fwelling.

When the pain recuies internally, there arifes much uncafi-

nels and inward Hilfaets, which on re-appearing go off.

WHEN IT ATTACKS THE HIP, it impedes the free motion of the les, occasioning pain and as halting in walking, or drayging of the leg; the pain often descends from the hip along the thigh and log to the feet; and it is fometimes attended with a

3 A

violent fever; in this case the feet of the associan is forestimes in the joint of the hip, and at others in the nerve called sciatic.

WHEN IT SEIZES THE LOINS—In them there is a very acute pain, with great difficulty in raifing the body into an erect porture; foretimes the pain defeends to the lower part of the back, to the thigh-joint, or through the fides towards the bladder—here the mutcles of the loins, or the ligaments of the vertence, are the feat.

CAUSES. The remote, or inducing, are, an exposure to cold suddenly whilst hot, too great loss of blood, or severe parging, hard drinking, immederate venery, indigedion, a vitiated state of the suids from other diseases, a too great fullacts from evacuations suppressed, and often from quick changes of the weather. The lumbago will also be brought on by lifting too heavy weights, in habits disposed to rheumatic all ctions.

The proximate, or immediate, have been supposed to be a viscid acrimonious forum obstructing the serous and lymphasic velfels of the mateles, but particularly of the membranes, or lipaments; or rather a peculiar acrimony, electively affecting the larger joints, membranes, and tendous of the mutiles.

CHARACTERISTIC SIGNS. This difease arises from an external, and, for the most part, from an evident cause, attended with pain about the joints, following the course of the markles, affecting the knees and the larger joints rather than those of the bands and feet: sometimes the hip markles, and vertebrar of the loins: frequently having febrile affections for its affectace, sometimes not.

GURE. When it is attended with febrile symptoms, we must have recorrie to bleeding, and that repeated according to the strength of the patient, and violence of the inflammatory affection; and two drams of nitre discoved in a quart of water-gruel facetened with honey, and acidulated with lemon juice, forms not an inefficacious remedy, giving a tea cupted every second hour, throwing up occasionally glysters, or giving occasionally cooling purges, to keep the body open, (P. 171, 172, or No. 122, 23, 24.)—to the nitre may be added one-eighth of a grain of tartariled antimeny in each dose, or to the purgatives.

Or the antimornal nitrated powder, (No. 125.) with the velatile faline muzice, may be given every five or fix hours, (No. 126) adding two or three grains of the powder to the night dofe.

Should these not keep the body open, clysters may be given, or aperients added to the powder or mixture.

These generally abate the sebrile symptoms, mitigate the pain,

and evacuate the acrimony, by keeping up a continued, gentle

perspiration.

When the disease is on the decline, the rapidity of the fever and the violence of the pain are abated, not be re-fleams of warm water may be conveyed to the parts affected, or friction if the parts can bear it, or liniment of water of acetated ammonia, and oil may be rubbed warm into, and a slannel worn over the part.

After fufficient bleeding, and emptying the intestines, partial or general warm baths have been found to give great relief; and our patients should use the same fort of diet as recommended in tallummatory sever, (212, to 214.) but when all the sebrile symptom, begin to abate, mustard whey, (No. 127.) will be an useful

drink.

Now from experience we find, though the crifis of this complain: happens either by fixeat, or urine dropping a yellow fediment, but nefs, or depositing an humor upon the exterior furface, particularly the legs—fill it is best conveyed out of the machine by the pores of the skin—hence a course of diapheretics are advised, and the patient ordered to lie in blankets in preservance to linen, in order to add to their esseace.

When the pain goes off, and the fever fubfides, the diet should be more substantial; and with intent to clear the constitution as perfectly as possible from the remains of the offending cause, a decoction should be taken of diaphoretic woods, (No. 88.) or the compound decoction of sarsaparilla—should ulcers happen upon the legs; they should not be died up too soon, for fear of imprudently repelling the humour to some internal part, which might prove more dangerous.

But fometimes, after the febrile affections are totally gone off, the pain still continues, and here we must labour to attenuate and throw out the acrimony which creates the painful affections, by a course of gentle diaphoretics—such as compound powder of specacuarha—or antimonials (230.) joined with opiates, in order that rest may be procured, and the patient's strength sup-

ported.

Stimulants are here also required, as tincture of guaiac, 30 or 40 drops upon fugar, and mixed with perpendint water, three or four times a day, or gum guaiac, made into a draught, with 30 or 40 drops of some volatile spirit, (No. 128.) or gum guaiac, and quick lime, equal quantities, well subbed together—then lime water poured on, and when it has stood some time, decant the limpid part—to this add a few drops of any volatile spirit and it will mix with water without separation—sometimes there will appear an intermission in the pains; and where, at the on-

fet of the diferse, there have been profuse discharges by the skin, with a copious deposition in the urine;—bark 193,(194.) is highly serviceable, united with volatile tincture of guaracum, (180) and has been known to relieve very obstinate cases, particularly in debilitated habits.

The CHRONIC RHEUMATISM chiefly affects old men, or those who by indiscretions have so weakened their constitutions, that they are reduced to that standard. The attack of this is not so general, seldom affecting so many places at once; nor do the parts appear so red or swelled—it returns at intervals, without any sebrile affections almost, or sweat—and there are sometimes tumors of the colour of the skin, or very slightly red, rising in different parts, rather round, of the size of a nut, affecting chiefly those of sull habits, and women who have nor their menfes,

In full habits bleeding may be had recourse to once—blisters and sudorifies are more useful—repeated purging expedites the cure.

Mercurials, joined with diophorets (No. 87.) are extremely efficacious—and also the addition of gum guaiacum to purgatives, (No. 19, 20.)—guaiacum given from day to day, so as to procure two or three stools every day, has been often attended with success; or on the nights previous to giving a purge (No. 19, 20 21.) in the morning, calomel joined with guaiacum has been of great use, (No. 129.)—when the pain is excruciating, opiates (151.) may be given at night.

Volatiles, and opiates externally applied, are often attended with falutary effects, (No. 107.) or flumulating plaister, (No. 130.) fufficient to create proper irritation over the part affect-

ed . . 13 . . . 39 . . .

Oil of turpentine has been spoken of as an internal as well as

external remedy, (No. 122.)

Electricity has been recommended for 15 days, a quarter of an hour each day, drawing the sparks through the parts affected,

and giving a few general thocks.

In order to prevent relapses, a slannel shirt should be wornnext to the skin; compound decoction of sarsaparilla with milk taken for a month; now and then the warm bath should be had recourse

to, and at the proper feafon fea-bathing.

Some of these modes will be sufficient in common cases; but in such as are more obstinate, change of climate is very often requisite, and also the natural hot baths—or in persons whose vascular system acts with freedom, nothing is more conducive to prevent its return than cold bathing.

In those rheumatic complaints called SCIATICA, or HIP GOUT,

and Lumbago, as they are of acute or chronic kind, fo must they be treated in the same manner as we have specified in general sheumatism—only in the hip-gout, when the disease has been oblinate, an illue cut above, or below the knee, has been of great service, as also blistering the thigh.

§ 13. Gour,

fo called from the French word goutte, an acrid defluxion—in medical language it is called ARTHRITIS by many, from anthron, articulus, a joint, because it affects the joints—by some Podagra, from pous, pes, the seet, and agra, captura, seizure, because they consider the seet as its natural seat—and though it is thought, that there is truly only one species, yet, according to the different appearances it puts on, it has been distinguished—all which may very properly come under two heads—the regular, or fixed—the irregular, or uncertain, Gout, respecting the seat it occupies—both these species, which we shall proceed to describe, appear to depend upon the strength or weakness of the whole, or some part or parts of the constitution.

DESCRIPTION. Before the fit comes on, the patients most commonly experience a general lassitude and weariness---are low-foirited--complain of a load and fullness of the stomach after eating--are squeamith very often, and throw up wind--the belly is ditended with statelence---the habit costive, the sweating or moisture of the feet goes off, and the veins there appear full.

After these an acute pain for the most part scizes the joint of the great toe, accompanied with a sense of coldness, as if cold water was poured down-slight shiverings, and other sebrile affections-a shooting, gnawing, pungent, or burning pain, seizes the small bones of the foot, or they seel as if squeezed strongly with the hand—in about twenty four hours, the part begins to look red, and swell--a gentle breathing sweat comes on, and then the pain begins to decrease, and the sever disappears.

In the morning patients find themselves better, in the evening worse, because at that time the fit comes on-during the fit men become irascible, and are easily irritated-they have little or no appetite-the body is costive; and a painful sensation of the part accompanies the whole fit-on the first days the urine is high-coloured, and discovers a brick-coloured or red sandy sediment.

In proportion as the conflitution is stronger or weaker, so does the he go off quicker or slower; at which time an intolerable

able itching is perceived between the toes, and the fearf kin falls off in feales like bran, -- the joints feel fliff as if they were covered with plaisers and dry, and a period is put to the difeafe

for some time--which again returns.

This is the case of the gout in its sirst attacks, so long as the constitution preserves a proper degree of power; but in process of time, as the habit becomes weaker, the complaint takes deeper root, the disease feizes the hands, wrise, elbows, knees, and other parts-hard chalky tumours are formed, and the distance limbs lose all motion. At this period the sits continue about the whole year, and the assisted make large quantities of pull urine; they are also tormented with piles, putrid cruciarious, spasmodic assections, shony concretions in the kidneys, gravely

complaints, and lose all appetite.

The strength of the constitution still failing more and more, till it becomes almost exhausted, the gouty matter, incapable of being thrown out upon the extremities, assects the internal parts of the system, and produces complaints peculiar to those parts from the stimulus it there occasions—fometimes upon the head, producing apoplexy, lethargy, palty, delirium, tremors, and universal convultions—fometimes upon the membranes of the chest occasioning pleurisy—or on the stomach and intestines, whence internal unealmess and oppression, sickness, vomiting, looseness—during the continuance of these affections, there is no pain in any part, otherwise it generally exerts itself—at length, the constitution being worn out, and having lost all its power, the vital parts, as the brain, lungs, and heart, begin to be depressed, and the machine salls a facrisce to its own weakness, and the violence of the morbid affection.

This description comprehends the gout in both its so.ms of regularity or irregularity---it being considered THE REGULAR GOOT, when it fixes upon the feet, and is attended with a sufficient strong inflammation, continuing for some days, and gradually going off, with swelling, itching, and peeling of the scars-skin,

in form of scales, like bran.

THE IRREGULAR, when it attacks other places, and is attended with internal debility of the stomach, or other parts; or has slightly assected the joints, and receded; or has not attacked them, but produces insammation on some internal

part.

CAUSES. The remote or inducing are, full, free, luxurious living--hard drinking, particularly acid and rough wines-indolence, or the omiffion of accustomary exercise-relaxed, fost, and full habit--immoderate venery in youth---too sudden changing from distilled liquors or spirits, to those which are thin

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and watery .-- suppressed evacuations -- and an hereditary taint.

It feldom actions boys, cateratas, or women, except viragos, or fuch as have pailed the time of having the mentes; but most commonly men in the decline of life, those of lively imaginations, the studious living a federary life, and fitting up late at night.

The proximate or immediate CAUSE is, a peculiar humour electively fixing in common upon the fmall joints, or rather thin ligaments; or, perhanz, upon the membranous coverings of the names, there ficated; or forestimes in other parts of the ma-

chare, particularly thefe which are the noth irritable.

any evident external cause; but having, for the most part, an unscentionary affection of the stomach preceding the attack, and also tebrile symptoms—a pain in the joints, and that most frequently of the great toe, but certainly attacking chiefly the joints of the hands and feet—this pain returns at intervals, and often alternates with assections of the stomach and other internal parts.

Though we allow of two species of the gout, yet it is pretty obvious, that they depend only upon the different proportions of Rrength in the conditution; --- and this will regulate our con-

duct in the mode of

CURE; and here are indicated a feparation and expulsion of the morbid matter, and a prevention of its return, or capability of reproducing its morbid effects—in all which we must be governed by the constitution. When the gout proceeds regularly, and fixes in the feet, patience and warm stannels are recommended—and the free use of wine allowed, under the idea of making the deposition of the gouty matter more complete, and affilting

the local expulsion.

However, in the most simple and regular cases, I do not recommend a total probabition of all medical additance; nor can I think that large draughts of wine, and loads of slannel, can compensite for the loss of judicance advice; for to me, who frequently have experienced the goat, is is clear, that some things may be done without any rispue of present danger, or future mischier, which remove the secontextimes lass violent, shorten its continuance, and obviate the contextimes lass violent, shorten its continuance, and missingenent, than from the nature of the dibase atless, and missingenent, than from the nature of the dibase atless, and missingenent, than from the nature of the dibase atless, as in the finall pox, where various and cordials were indituted for the same purpose, of threwing of the morbid mat-

ter by which the fever was too highly is reasted, and destruction

too often, and danger always the confequence.

Let us fee who are the men most subject to this maledy-hard drinkers, particularly wine-bil bers-men of voracious appetites, who feed on high-feasoned dishes--venereal devotees--men of lively imaginations, and those addicted to severe study, late hours, and good living; and, in short, most of those who, by various means, weaken their digestive powers--if these have the gout in their habit, they seldom escape; if not, commonly acquire it from their own indiscretion.

In men, before they fall into the gout, it generally happens, that their flomach and bowels are loaded with crude materials, vifeid humours creeping through the melentery and other vifeera--local fullness in the liver--tpleen or fweetbread;--impeded, or irregular evacuations by ftool, urine, or perfpiration--hence

often an acrid state of fluids.

Now, in such constitutions, previous to the attack of the gout, we find a number of symptoms announcing its approach, such as statulence, load at the stomach, and nausea, or sekness.

Here it would be proper to admitter an emetic, (No. 11, 12, 38.) which some gentle purgative should faceed, particularly of the aloctic class, (No. 203.) and this last given two or three times, at proper intervals; after which, standards bitters, joined with mild chalybeates, (No. 63 to 65.) or with some of the warm diurctics, (175, 176.) will be niciulathese will saffice for the first stage; for I consider the affection of the stomach as that state of the disease; besides, if the patient be of a full habit, and strong, has a good pulse, bleeding may very properly precede this cause.

The mode of living should be moderate, with respect to cating, drinking, and exercise-the sleth of young animals allowed only once a day--vegetables stewed in their own liquid, or with very small portions of water--the beverge, small rum, brandy, or geneva and water--and the exercise chiefly on horse--back.

By these means the stomach and howels are unloaded, and kept free from accumulations of crude and offer five faces; visceral obstructions are opened; the strikes made to circulate through the different viscera; the mass of blood pushed forwards to the extreme parts, and furface of the body; the liver, stomach, kidneys, and howels evacuate their contents in project proportion; from the lungs, and through pores of the skin, is thrown out a due quantity of perfoirable matter, and nonloas exhalations; the powers of digestion are increased; and, in fine, the whole

machine put into as healthful a flate as the nature of the cale will permit.

Prepared, therefore, for the second or painful stage, if the method above pursued should not prevent its accession, it will come on less violently, continue a shorter time, and leave behind it lets debility, from the constitution being freed from any super-should load, the vascular and nervous tystem rendered stronger, and the finish being put in a mild state-however, even here something may be done to mitigate any degree of violence which may occur from constitutional paculating, with respect to pain and tebrile symptoms, which last are now to be considered only symptomatic.

Diluent cordials, wine and water, fage, balm or mint tor, may be freely drank, and antiful anodies, diaphoretics, and antimonials, joined with camphor and volatiles, (No. 131) may be taken-if the pain should be excessive, not otherwif, gentle or intesting be added-eathereal spirit of vitriol, water or accessed arramonia, with anomatic confection, and as hereal fairle of nitre; these will promote perspiration, and increase the urmany dis-

charge

The body should also be kept open with small doses of the barb, castor oil, manna, lenitive electuary, and glysters occasi-

onally, if peceffary.

The diet should be broths--gruels with a little wine, sago, salop, arrow-root, topioca, in which may be put wine, or a little brandy--tresh water sith, cels and salmon excepted--chicken, rabbit, veal, lamb, small birds, and such like may be allowed, but sparingly; they had better be deferred, at least a free use of them, till the decline of the sit;

As for external applications, during the fit, by whatever authority they have been recommended, I am averie to their administration, because the pain seems rather an influment of nature for the full completion of depositing the whole of the couty matter, creative of the fit, in the extremities--it should be mitigated, if violent, by the means above described.

Indeed, if the pain is moderate, as well as the febrile frmpatoms, and the bowels as well as kidneys perform their rune-tions fully and regularly, little is necessary to be done, till the decline of the fit, and then diaphoretics at night are use-

ful.

After the fit is over, a gentle dose or two of physic may be taken, and a little stomachic draught once a day for a week or ten days; and should the joints affected remain weak, we may early use the sless brush, or stannels impregnated with frankencense, amber, or myrrin, by way of friction—however painful it

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may be, I would advise using the joint affected during the fit repeatedly; for that prevents the too great relaxation of the ligaments from the flux and flagnation of fluids in these vessels.

By these means may this painful disease be mitigated, or the painful consequences often subdued, and always made less severe; but if we would attempt the cure, we must try that in the periods where there is some long intermissions; and this by the preventive plan, (62. 97.) to which regimen there pointed out, stomachie and aromatic bitters should be occasionally taken, such as quassia wood, (175.) or bark mixed with steel, (No. 61 to 65.) chalybeate waters, particularly those of Bath—the skin should be kept clean, and a stannel shirt worn next to it—a dose of tincture of rhubarb, (173.) should be taken twice a day;—and, in sine, such things occasionally applied to, as will contribute to strengthen the stomach and digestive powers, keep up a free state of perspiration, and prevent the body from being costive.

Should these things fail, our last resort must be a milk diet, and that constantly persisted in; though this will only suit such as have a pretty throng stamina: the weak and very debilitated

would probably fall a facrifice to the change.

When the GOUT assumes its trrecular form, we conclude it is owing to the weakened state of the moving powers, not being able to throw the ostending matter to the extremities, or, when there deposited, of not keeping it in that situation---and hence the head, lungs, stomach, kidneys, bladder, come to be assetted, because they possess more sensibility, and are more irritable than other of the internal parts---however, when it sixes on these parts, it is extremely hazardous, in proportion to its degree of violences---we, therefore, as expeditiously as we can, should labour to throw it out of the habit into the extremities, particularly into the feet.

Now, if the HEAD and LUNGS are a Color, and the habit full of blood, we must bired in proportion to the strength and full-ness-after saids apply blocks to the inside of the thighs and light-bothe the feet in decocious of horte-taddills and bruiled to the red--form advite wine, or form other spirituous men-frumum--to apieus (No. 30.) may also be applied to the feet-said we should give volatile comphorated medicines, (No. 33. 35 to 37) and with cordials, (No. 12 to 18. 28 to 30.) to increase the medicine of the blood, at the same time that it is foli-

cited to the extreme parts.

But mould the storage be the feat, vomiting will often be forviolent, as to reject almost every thing which is taken; in order to allow this, we must depend upon cordials, as above, uni-

ted with opiates; and occasionally give opiates themselves, as twenty or thirty drops, or more, of tincture of opium, at proper intervals—and hot wine, or rather brandy, with incess and garlic, should be copiously administered—and strong aromatic diaphoretics, as snake-root, camphor, volatile salts, &c. (178, 170, 180.)

Which remedies may be applied if the BOWELS should be attacked, and in confequence a looseness supervene, then to them we must add some astringents, as extract of logwood, (140.) tincture of catechu, (139.) columbo root, in powder, ten grains, in tincture, two drams—a drop or two of the compound water of acitated lithurge, or ley of iron, called lixivium martis, given at proper intervals, have been essications, when other applications have failed.

Indeed, in every species of the irregular gout, whatever internal parts it attacks, the same modes of proceeding are necessary, as pointed out here in general, increasing the force of the circulating powers, and soliciting a free flow of them to the extremities, endeavouring, at the same time, to alleviate the oppressive symptoms peculiar to the affected part; as when it attacks the kidneys, we have recourse to emollient decoctions and

glysters, with warm baths, &c.

With regard to the mode of living to be observed by gouty patients, or those in whose constitutions there is much of that matter creative of the disease, TEMPERANCE has always been advised---on which I shall beg leave to observe, that by this term is meant such a mode of living as is best adapted to the constitution; for there may be as much intemperate mischief to some habit by drinking too large a quantity of water as of wine; and, indeed, in every species of abstinence, were pursued to such extremities, as weaken rather than properly support the powers of nature.

SECTION XV.

MORBID EVACUATIONS.

The must now proceed to treat of these disorders whose most ficking symptom is some exactation, which is either not natural, exceed the limits, or returns at more frequent periods than what is usual in a flate of health.

These may be properly divided into such evacuations as flow from the bowels, called ALVINE, from aleas, the belly--sanGUINARY, from fanguis, the blood--called BALORRHAGIS. from aima, fanguis, and rea. fluo, to flow--and SERGUS, from serum, or the thinner fluids, and lymph, urine, mucus, sweat, and similar fluids.

Now all these evacuations are either ACTIVE or PASSIVE, similar to what we have said on inflammation. (298. 305.)——when they are ACTIVE, they are solicited by some morbid stimulus, or medicines by which the excretory vessels of the parts assected are put into stronger action, and throw out their contents too copiously, or the vessels burst, and from thence is the evacuation produced—when PASSIVE, the proper powers of the living machine do not excite, but become defective in resissance, as in cases of a constant sux of urine from the relaxation of the sphineter of the bladder. (51.)

Of these truths we shall be convinced, if we consider, that all the shuids of the human machine are contained in different receptacles, as bile, urine, &c. and also that part of them are kept in perpetual motion, as the blood, &c. part of them secreted and exercted; some of which secretions slow out of the body in regular succession, as the matter of perspiration; some are retained for a time, till nature calls them into motion for particu-

lar purposes, as milk, semen, &c.

It will therefore appear obvious, that whenever the force of the impelled fluid, or the weight of it, when collected, is too powerful for the natural firength of the veffels or cavities, the veffels which burft, or the fphinders by which they are guarded, and prevented from pouring and their contents, be opened; hence, when either the expulsive force of the contained liquid is too great, and the fides of the veffels too much weakened; or when the fluids are in too great quantity, and the fphinders in too relaxed a state, the rupture of the one, the want of contractile power of the other, will needfarily lay the foundation for the difease; fo that it may arise either from an increase of the expulsive and decrease of two resulting power, or from them both happening

happening conjointly in the fame habit, and at the fame time.

The indications of cure will then be, in ACTIVE EVACUATIONS, to attempt to remove the morbid flimulus, and weaken the powers of the veffels or cavities.—in the PASSIVE, to fireighten the veffels or cavities, and give power to the 12hin hers, that they may 20 with proper force.

CHAP. I.

ALVINE EVACUATIONS.

RHOEA from dia, per, and rhoo, to flow, though they are by authors divided into different species, either from the nature of the affection, or from the appearance of matters which flow through the bowels in too large quantity.—the first of which is stilled DIARRHOEA, or COMMON LOOSENESS, when there is a condent and remarkable evacuation by stool of liquid matters without much pain or unexamels; but when there is an evacuation of damy matter, fometimes bloody, attended with febrile affections, severe gripings, nausea, or sickness, and frequent propensity to go to stool, with very small evacuations from such efforts, it is called DYSENTERY, DYSENTERIA, from dus, male, and enteron, intestinum, intestine.

When the disease is very acute, attended with a continual vomiting of bilious matter, and at the same time a violent looseness, or at least a nausea, and strong propensity to go to stool, with loss of strength, and very often cramps of the thighs and legs, it is called CHOLERA MORRES, from kole, bilis, bile.

When there is a frequent purging of bloody ferum, as if raw flesh had been washed in some liquid, supposed to slow from the liver, it is called INDOLENT, because unattended with any severe pain, great sickness, or remarkable loss of strength—this evacuation is therefore named HEFATIRRHOEA, from epar, jecur, the liver, and reo, sluo, to flow.

If there is a frequent purging, in which the aliments appear fearcely to be changed by the digeflive powers, and comes on immediately, or foon after eating, it is termed LEIENTERIA, from leios, lævis, fmooth or flippery, and enteron, intestinum, intestine

Should there be a frequent evacuation of white matter, supposed to be chyle, it is termed coeliaca, from koilia, venter,

the floresch, or first bowels, where the first digestion takes place, and terms chyle, which chyle is supposed to give the appearance from whence this disease is nominated.

If of black menter, or of a deep red colour, is then called ME-1 ESA, from melas, niger, black, unattended with any puttid fm II, fadden deprivation of firength, or remarkable degrees of pain, or naufea.

However, it will be sufficient to take notice only of two of these, as the rest may be cured by the same means made use of

in some of the stages.

§ 1. Cholera Morbus, or Bilious, vomiting and intes-

The feat of this complaint feems to be the whole intestinal canal, particularly the stomach, head of the duodenum, (42.) and doctus communis choledochus, the common duct of the gall bladder. (36.)

And it is apt chiefly to attack such as are of bilious, dry, choleric habits, or whose constitutions are loaded with scorbutic acrimony, or the sirst passages with acid humours, or are of

irafcible dispositions.

Though this disease will sometimes come DESCRIPTION. on very fuddenly, it is often preceded by heart-burn, a gnawing, painful fensation of the Homach and bowels, and rancid eruclations-after which fucceed enormous vomitings, and inteffinal ditcharges of vitiated humours, bilious, green, yellow, and fometimes black, with great difficulty and pain-there is also a violent pain and diffention of the belly and intestines, accompanied with thirs-a pulse at first full, strong, and frequent, afterwards weak and irregular-heat, and anxiety-moreover, there attends a nantea extremely troublefome-fometimes a contraction of the legs and arms-an acute pain above the navel --retention of the urine-fainting-coldness of the extremities ... the body becomes weak, and the spirits low-with other functions of a fimilar nature, which greatly terrify the attendants, and will deftroy the patient in forty-eight hours.

This difeate generally makes its appearance in autumn, more

especially after a hot and dry summer.

If the difease is more than commonly violent, the evacuations downwards are very numerous, amounting in the space of a new hours to ninety or a hundred—the patients soon become expandiated and reduced—and the symptoms above specified are quickly followed by hiccough—universal convultions—cold

fweats

fweats-frequent fwoonings-and either in one of thefe fits, or in a convulfed thate, when the difease proves satal, they expire.

CAUSES. The remote or in lucing are, cating of pook, bacon, lat meat fried in oil or butter-or fweets, grayes, cherries, cucumbers, melons, or all fach viands as become readily rancid or acid-poilons-throng purgatives-violent rage-and acrimonious bile.

The proximate or immediate, constrictions of the stomach and fmall interlines, particularly the duodenum, by bilious or acrimonious humours irritating and vellecating the fensible nervous coats, which cause an increase of action in thete organs, preducing different fymptoms, according to the parts locally or in pachetically affected.

CHARACTERISTIC SIGNS. An acute disease, attended with the vomiting of fome humour, mostly bilicus or acrid matter, at the same time a frequent intestinal evacuation, or at least a nausea and tenefimus, or frequent desire to go to flool, accompanied with anxiety, abdominal pains or gripings, and very of-

ten spasmodic contractions of the legs.

CURE. The indications are, to theath, dilute, and expel the acrimomous humours, take off the convultive affection; afterwards to reflore threagth and activity to the flomach and inteftines; and there are done, first, by drinking freely of weak chicken water, made by boiling a chicken in three gallons of water, fo that the decoction just takes of the fleth-large draughts of which should be taken, and given in glysters till the whole is confumed -about three or four hours after which an opiate, (No-4.) may be given; and this mode, if at first made afe of, will generally complete the cure.

Or, very weak beef or mutton broth, divested of fat -or milisand water-fresh butter-milk-decoctions of rice or barleyor infutions of oaten bread, toafted and made brown like coffee -or wheat-bread, or out-meal touted may do, where chickenbroth cannot be had-indeed the infusion of the oaten bread has been preferred by fome, as it has been observed to fit easiest on

the stomach, and never vomited up.

But should the patient have been purged for ten or twelve homs before affifiance has been given, an opinte flould be againiffered during the urgency of the tymptoms, and the doles large and repeated, approportioned to the vaclence of the disease. -SYDENMAM gave twenty-five drops in an ounce of cinnamonwater, and that proving incilcacious, in half an hour the dole was increated, and repeated at fuch intervals as gave room to fup; ofe the effect of the former dole had could, before the fuceseding one was administered—and after the feverity of the difcase abates, the opiate should be repeated night and morning,

till the Arength and fpirits return.

In common cases this will be fusicient; but if the patient is of a full, fanguinary babit, bleeding is immediately needle vshould the pains of the stomach and intestines be extremely violent, partial warm baths, or local fomentations of the fairitious kind, may be had recourfe to, and camphorated and volatile lini-

ments, (No. 107. 132.)

Should, after copiously washing the stomach with some of the diluting liquids, the affection of the flomach flill continue, the fermentative faline draught, (No. 59.) may be exhibited; or the infusion or powder of columbo-root, ten or fifteen grains to a dole, at proper intervals, which is often an effectual remedecata lasms of mithridate, * Venice trecle, * or opiated conjection, or the leaves of common mint bruifed, boiled in port, may be applied to the pit of the flomach and wrifts-and mint tea, or weak infusions of cloves or cinnamon, may be taken occasionally.

In cases of great heat and internal uneafirefs, nitre is recommended-from thirty grains to fixty of powdered columbo-root, from the first, taken every three or four hours, have been faid in three or four days to have completed a cure-indeed, in hot

climates, it has been effeemed almost a specific.

After wathing the flomach extremely well, in ten or twelve hours that organ fettles, opiates then given in a liquid, or folid form, as belt agrees, are require to allay the diffurbance which has been created in both the nervous and valcalar fythems; which must be continued at bed-time; and, in about three or four days, a dofe of rhubarb may be proper, and, at night, an anodyne.

Should the appetite be left weak, a draught of the infusion of quasia wood, with a few drops of dilute vitriolic acid, may be given twice a day, or some other bitter infusion, (No. 63 to 65.) -and the paient should return gradually to the common mode

of living.

The mode of treatment here recommended is proper in this

complaint ariling spontaneously, or from an epidemic cause.

But when it originates from food got into a flate of fermentation and corruption, besides plentiful dilution, with watery and mucilaginous liquids, we must have recourse to emetics and aperients, (165. 172, &c.) (as ipecacuanha, emetic tartar, castor oil, rhubarb, &c.) and afterwards warm bitters and tonics, and corroborants, with aromatics. (No. 61 to 65.)

If it is brought on by strong emetics and purgatives, warm fedatives are necessary, to allay the agitation of the bowels and slomach, (No. 113.) fpirituous fomentations and volatile camphorated liniments, (No. 107. 132.) afterwards, to alleviate the uncaliness occasioned by the violent action of the emetics and purgatives.

If violent anger should be the cause, emetics and purgat ves are to be avoided; nor must cold water be given immediately afterwards, as we should run the risque of bringing on an inflammation of the stomach—the acrimony of the bile we must endeavour to correct, by proper absorbents, (191) united with nitre. (No. 2.) diluting and meathing it with muc laginous and watery liquids, as barley-water, thin gruel, bran tea, decoctions of hartshorn shavings, and such like labricating and emollicut drinks—afterwards, when the hurry is over, it may be carried off by emetics and aperients.

If it deduces its origin from aerimonious irritating poisons taken internally, we must depend apon filling the stomach and intestines with oily and mucilaginous liquids, to guard them from the effects of their thousand abbrevia added to these liquids are faid to render them more colloadious—or alcaleident substances, (192.) well diluted, might be serviceable, if the poisons had been of the saline kind, for reasons advanced in inflammations of

the stomach from the same cause. (337.)

§. 2. DYSENTERY, OR TENESMODAL, DYSENTERIC, INTESTI-

When this difease is epidamic, it seizes indistriminately all classes of people—but those in general are most subject to it who are of bilious constitutions, (60, 61.)—who feed on corrupted diet, unripe fruit, and drink termenting liquids—and who expose themselves to the most night air, after being in the day-time much heated by the sun. It is most rise in summer and autumn, when damp cold nights succeed hot weather.

It is not only infectious but contagious; because it has been known to be occasioned by the smell of dysenteric speces, and from having recourse to the same close-stool after people labouring under dysentery, and also from the nurse's milk, under si-

milar circumstances.

DESCRIPTION. This disease is generally ashered in by a general lassifude and chillness, with a loss of appetite for some days, which are succeeded by great degrees of heat—resultiness—nausea—vomiting—heart-burn—and uneasiness at the pit of the stomach—thirst—and a quick pulse—exeruciating pains then seize the belly, which occasion a frequent evacuation from the intestines, but small in quantity—the matter evacuated is either

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mucous, thin, and ferous, bloody, frothy, and often mixed with thin skin-like, or filamentous substances—the bowels are loaded with wind, which rolls about, and makes a confiderable noifeand the patients are perpetually defirous of going to stool-have a firangury, and often a flipping down, or protrution of the lower part of the reclum, (43.)-the loss of strength becomes extreme—and whilft the extremities are cold, they perceive in the interior parts great heat—then foon come on a hiccough, and cold

At length the pain suddenly ceases—the faces, extremely offensive, pals away involuntarily - the pulse becomes weak-the thirst goes off-and, whilst the unhappy patient is flattering himfelt with the hopes of recovery, from the apparent alleviation of

the fymptoms, he fuddenly expires.

This disease, notwithstanding it is often fatal to adults, but most of all to fuch as are much advanced in life, still in infants it is very mild; for they will be affected with the same difease for some months without any inconvenience, if it is left to the direction of nature.

Though the general progress of the disease is here described,

practice demands us to make some necessary distinctions.

If the dysentery is of the INFLAMMATORY KIND, there will be a high degree of fever-hard full pulle-extreme pain of the belly, which, on handling, increases, and, after vomiting, is fill more distressing—the head aches—the countenance is slushed -fometimes the belly is diffended-in quantity the evacuations are finall.

If of the PUTRID KIND, there will be a bitter tafte in the mouth-fliverings now and then come on, as it purfues its course -the teverify affections are flight-the face pale-the evacuated matter variously coloured-bendes which, a bilious vomiting,

fometimes accompanied with worms, is an affociate.

If of what is termed the MALIGNANT SORT, which it may be from the very beginning, or occationed by the milder fort degenerating from constitutional defect or milmanagement—the pulse is then weak-the flrength fails suddenly-the countenance has a cadaverous afpect—the voice is weak—the head heavy there is great oppression at the pit of the stomach, attended with flight convultions, fickness, and frequent fainting-and, now and then, emptions of different kinds make their appearance, fuch as those of the miliary class, spots like slea-bites, and thrush.

CAUEES. It is supposed to arise from acrimonious matter of a putrid nature; because it makes its appearance in most warm leafons, adapted to generate putrefeency, chiefly attacks thole of scorbutic habits, (61.) and originates from vapours of putrescent blood; particularly because it softens and corrupts the parts affected, generates air very copiously, and renders the faces highly putrid; and also because, on the diffection of bodies dying of this complaint, the intestines, especially the colon and rectum, (43, 45.) are preternaturally thick, diffended with air, inflamed, ulcerated, and in a mortified flate—the inner or villous coat abraded—the bile greenish like a leek, visitid, and often of a black colour—and the blood very dark in appearance.

CURE. Of whatever nature this disease may be, the indications are similar, and depend upon evacuating the acrimony, or determining it to other places—weakening its action—alleviating the distressing symptoms, by rendering the intestines less fensible to its irritating effects, in its first stages—in the last, recovering the tone, and giving strength to the relaxed and weakened vessels.

To promote these purposes, in full habits, where there are apparent symptoms of inflammation, the patient should be bled once or twice, according to their urgency, and the strength of

the patient.

In the next place, the flomach and intestines should be unloaded by emetics and cathartics—twelve grains of powdered ipecacuanha, and one of tartarized antimony, should be well mixed together, and divided into three parts, and one given every second hour—no liquid should be taken after the sirl dose; but after the third, weak beef tea, or chicken broth, should be drank liberally to encourage the vemiting—after which a slight opiate will be requisite.

Should the emetic produce smart evacuations upwards and downwards, the succeeding day it is not necessary to order any thing except a grain of opium, mixed with three or four grains of ipecacuanha into pills, with syrup of white poppy heads, and

given at bed-time.

But should the emetic not have produced any purgative effects, a purging powder, made of thirty grains of rhuburb, and three of calomel, must be administered the morning following.—As for my own part, in the beginning of this complaint, I prefer the oil of castor emulsion, (No. 66.) as it relaxes the coats of the stomach, sheaths the acrimony, produces evacuations, and mitigates the pains of the bowels.

But as is the nature of the disease, so should be the election of our purgatives—if of the inflammatory kind, the salines are preferable, (172,)—if the puirescent, the antiseptic, as tamarinds, eream of tartae, &c; (No. 23, 24, 50, 51.) but in every case,

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after the effects is produced, an opiste should be administered at

In the intermediate spaces of time, small doses of nitre, accompanied with anti-nonials and faline mixtures, may be exhibited, joined with fheathing medicines, fuch as gum tragacanth, arabic, flaren, if the fever neeps up-or should it be of the low maliga

nant, gentle cordials are property

However, should not the disease soon yield to this mode, but the iyms tems fill continue, particularly griping and purging, finall doies of ipecacuanha may be given, fufficient only to create a naulca, (No. 133,) increasing or decreasing the dole agreeable to the effects, and joining it with antileptics, cooling, or cordial medicines, as the particular nature of the cafe may re-

Should the floois continue remarkably vifoid and offenfive, every fecond or third day a purgative should be given, and at night

ancopiate.

We must proceed in this manner, till, from the regularity of the pulse; the cellation of pain, and propenlity to itools, as well as from the want of them, we may conclude the difease terminated-but should not these appearances occur in the course of a few days, we have reason to apprehend the greatest danger-we must then, if the symptoms continue as violent as at first, have recourse to fomentations, (No. 111.) and glythers of the sheathing and anodyne fort, made of milk, broth, marth-mallow or linfeed decoction, with flarch and tincture of opium.

Befides the ipecacuanha, other medicines are recommended. and, if we believe the recommendation, falling little short of infalibility, viz. form two to ten grains of created glass of antimony, from ten to fifteen grains of powdered columbo every three or four hours—the decoccion of lemirauba back is confidered as a specific, and faid to remove the disease without the danger or inconveniencies attendant on aftringents, (No. 134.)

At the close of the complaints aftringents are useful, particularly tonics; and, indeed, also when the most violent fyingtoms of fever, pain, and tenefinus have ceased, to relieve the re-

laxed state of the vessels.

In partiting the modes here laid down, we feall feldom fail of curing this complaint; but should it be accompanied with a puand mall past tever, there will be little hope of a recoveryhowever, we fould try the effects of ANTISEPTICS, (192 to 194.) particularly wine, infufious of bark and make-root, with a few drops of tincture of opium in each dofe, and the free afe of fubacid freits, (192.) taken by themfelves, or squeezed plentifulty into other liquids -indeed, fruit, and things of a fimilar nature, will form, in these cases, the proper plan of diet—but when dy senteries are unattended with any high degree of putresaction, decortions, and jellies of rice, sago, tapioca, salep, the white decoction, chalk mixture, weak chicken-broth or beef tea, are most proper—though all solid animal food must be avoided.

When flatulencies become distressing, which will sometimes be the case, chamomile slower tea, insuson of cinnamon or cloves, or liquids impregnated slightly with other aromatics, may be

occasionally administered with great advantage.

However, we have had inflances of some of these complaints which were epidemical, and from their nature so extremely defluctive, as exceeded the powers of medicine, supposed to be owing to their deducing their origin from acrimonious humours, highly caustic—in which a total loss of strength, swelling of the belly, finking of the pulse, a discharge of blackish stools, and clammy sweats, were certain figure of the irremediable state of the disease.

With respect to the common diarrhoea, if it is unattended with any weakness, loss of appetite, or febrile affections, and is moderate in quantity, it very often is of service to the conditution, and is rather conducive to health than otherwise; but should it run on to too great excess, it will require the same means for its core, and will be conquered much more easily than the dysentery—and, indeed, all the other species we have specified require the same treatment—at the beginning clearing the first fages of any irritating contents, by proper emetics and catharties; next soliciting the flow of sluids to the surface by diaphoretics, and strengthening the slowed and bowels by tonic affingents, bitters, strengthening medicines, and particularly riding on horseback, at the close of the complaint.

With regard to the HEPATIRRHOEA, we must proceed as advited in that diforder called tabes hepatica, or hepatic con-

fumption, (334. 335.)

concernations

CHAP. II.

HÆMORRHAGES,

FROM the Greek words aima, fanguis, blood, and rennumi, e-rumpo, to break out, or

SANGUINARY EVACUATIONS.

All these essuions of blood are considered as morbid, which either flow from particular parts not naturally acconstomed to produce such evacuations; or, though producing them periodically, still assort them in too great quantity, or return at too quick periods, that the machine, by these means, is so injured, as to experience some desect in executing its sunctions properly, and consequently salts into a diseased state, attended with a greater or less degree of danger, according to the violence of the essuition, or to the consequence of the part stop whence it slows.

Now all hamorchages arife, either when the circulatory propullive powers are increased to a great degree of violence; or that the refishance of the blood on its part and the vessel, should be diminished; or that each of these things should happen at

one and the fame time.

Hence, then, we had, that complaints of this nature may be occasioned in four different ways—by the velfels being ruptured, dilated, or croded; er, by the blood having loft its natural vifciency, and becoming to thin—under any of the circumstances, the velfels not being capable of coeffining the blood within its proper channels, occasion hamorrhage—whence arise a variety of these complaints, taking their names from the places from whence the blood iffles; or the assion of the parts producing, instead of their natural, these fanguinary discharges.

Hence BLEEDING OF THE NOSE, named EPISTANIS; from

the Greek word epiftano, fanguinem e nasibus sullo.

STITTING OF BLOOD --- HEMOPTYSIS, OF HEMOPTUON, from aima, fanguis, blood, and ptuo, to spit.

VOMITTING OF BLOOD --- HEMATEMESIS, aima, fanguis, and

emeo, to vomit.

MARING BLOOBY URINE --- HEMATURIA, aima, bleed, and ouron, urine.

PILES --- HEMORRHOIDS, aima, fanguis, blood, and rheo, fluo, to flow.

MENORRHAGIA, mene, menfes, and rheo, to flow.

In all morbid off flows of blood, from whatever place they iffue, we endeavour to find out the proximate or asing cause before enumerated, and form the modes of cure accordingly;—but as estations of blood from the lungs is of the most dangerous nature, we shall felect that, in order to point out the particular mode of proceeding, and occasionally advert to what deviations may be need lary an account of the difference of situation of the part affected.

(1. SPITTING OF BLOOD, OR HEMOPTYSIS.

All morbid effusions of blood through the mouth take this general name, except that which is vomited up---and this appellation we think improper---if blood comes from the gums or throat, or drops from the fuperior part of the nofe internally into the fuperior part of the fauces, it may be right; for the effusion externally will only be attended with a spiriting, flight cough, or hawking; but, when from the longs, the cough is more confidenable---we shall therefore diffinguish the complaint of which we are about to treat, by the term,

§ 2. Coughing up of Blood.

DESCRIPTION. In this complaint, for the most part, a chillness--lassitude---coldness of the feet---disculty of breathing come on---a weight, or undulating lensation is felt about the diaphragm---flatulence in the beily---and pain in the back---at length there comes on a tickling and aching in the windpipe, from whence issues forth blood---it it is recent, the colour is florid, the fluid frothy, and coughed up in large mouthfuls---but it is not always of a very florid colour---in some cases it is of a blacker hue, as it remains and concretes more or less in the vesicles.

From the symptoms here enumerated it appears, that a spasm

of the whole machine takes place before the effusion.

CAUSES. The remote or inducing are faid to be, a fullness of blood, brought on by fome accustomary evacuations being impeded, if, at the same time, the action of the vessels should be strongly increased by anger, violent motion, living upon too hot food or liquids, or violent cough, flould the exertions in protruding the seces in costive habits be too powerful---long expolure to levere cold, cauling a contraction on the furface of the body and the external veffels, air pollefling too much levity in very high tituations, a suppression of the menses or piles, too great a rarefaction of the blood, ipalinodic centractions of fome of the vifeera, feirrhus obstructions in the neighbouring vificera, or a feirrhus or polypus in the veffels of the lungs themselves --- or, in fine, whatever determines too large a quantity to the lungs, and causes it to circulate too forcibly against the vellers which are not obstructed, or some diseases which break down the texture of the blood, or crode the veillis, as fearvy, pulmonary confumption, finali-pox, or those depending upon a putreicent acrimony of the fluids.

Those which are proximate or immediate we have before enumerated, merated, (622, 623.) but most commonly it is a supture of the

veffels preceded by an universal spasm.

CHARACTERISTIC SIGNS. A flushing of the checks, fenfation of uneafiness, or pain, sometimes heat in the breast, a tickling of the sauces, cough, and throwing up of florid coloured blood, often frothy.

People most subject to this complaint are those of slender, delicate frames, who have long necks, are narrow chested, whose blood is acrid and copious, and are between twenty-five and

thirty years old.

CURE. This difease is always to be confidered of a very dangerous nature, and requires very early and effectual affiftance -in doing which, we must endeavour to solicit the blood from the lungs, moderate its heat, take off the external fpasmodic affections, and heal the vessels, if ruptured .-- If then it proceeds from too great fullness we must have recourse to bleeding, in proper quantities, and at fuch interval; as the necessity of the case demands—all animal food must be prohibited, even the weakest broths - and the diet should be by no means nutritions, but itsould chiefly confift of vegetable juices, fuch as burned turnips, apples, oranges, panada, thin gruels, ices, and fuch fimple materialsthe liquids allowed should be nitrated emulsions, Seltzer water with milk, or barley water, thin whey, or toal and water drank cold—the body should be kept at perfect rest, seldom in a recumbent posture, nor should the patient be allowed to speak, fearce at all; nor, indeed, should any thing be permitted that can in the least increase the motion of the lungs-opiates should be exhibited now and then, if necessary, to produce rest, and the body kept open by glytters, (No. 25, 26.) or gentle cooling aperients, (171, 172.) that the blood may not be impeded in its circulation downwards.

The mind of the patient should be kept perfectly at ease—and the first and second bleeding should be copious, from large orifices, and quickly repeated, if the violence of the case requires it—for one free bleeding in this stage is of infinitely more service than a number of sparing ones.

Nitre should be given freely in any cligible form, as it is much to be depended upon; for it lestens the motion of the blood, and allays its heat, consequently prevents strong vascular

action, and the expansive power of the blood.

Keeping the body open with cooling aperients, (171, 172.) particularly Glauber's falts largely diluted, (No. 135.) is extremely useful, taken now and then, till the effect is produced twice, or oftener.

Should the cough be very troublesome, some of the oleagi-

nous

nous medicines, (No. 81 to 84.) to which nitre may be added,

and given to allay the pulmonic irritation.

This method in common and recent cases will almost always fucceed; but when it proceeds from previous injury in the texture of the blood, and weakness of the lungs, constituting that kind which is habitual or confamptive, little can be expected from bleeding; for this, by weakening the fystem, and contributing more to disolve the texture of the blood, feems rather casculated to increase the mischief, inatinuch as it adds power to its causes; small doses of antimonials, (180.) or inecacuanha, (180.) are most likely to produce good effects, by determining the flow of blood to the furface, and demulcents, (188.) by adding to the viscidity of the fluids.

And thould the pain, difficulty of breathing, and cough, cease with the essax of blood, we may give tonic medicines, as decoction of bark, (193.) to which may be added the balfam of capivi, (165.) or fome of the mild balfamic class; for we may reafonably infer, that there is no more extravalated fluids in the pul-

monary vehicles.

But it fometimes happens unfortunately, notwithflanding all our efforts, that though the efflux of blood may be stopped for a few hours, or days, it will return with a quick hard pulie, troubletome cough, oppression, and difficulty of breathing, then we may have reason to be alarmed, and sear a supervening confumption - in this cale we have little to depend upon but general remedies, fuch as goats whey, als' milk mixed with Seltzer water -or the waters of Bristel should be had recourse to-tiding, fwinging, failing, and a milk diet; for fome have, by thefe means being rigidly purfied, happily recovered.

Slight vomits may also be given three or four times a week. early in the morning, merely to give two or three motionsthree or four grains of ipecacuanha is fufficient and fully ade-

quate to answer every useful purpose.

§ 3. BLEEDINGS OF THE NOSE

are not commonly attended with much inconvenience, and generally yield to topical applications-which may be had recourfe to, if the pulie becomes weak and finall, the cheeks and lips lose their natural colour, and the extremities be seized with unufual coldness-the common remedies are finelling at vinegar, or folutions of white vitriol, applying dolils of line by themfelves, or loaded with some styptic, as styptic tinclure, alam, &c. cold wet cloths, or cold from applied to the maps or the neck, to the to some the same and the

But when the affection is accompanied with any great increase of vascular action, which will be attended with a firong, quick, full pulle, heat, head-ach, and other symptom, indicative of too firong valcular power, we must have recourse to bleeding, and fuch remedies of the cooling kind as we have advised, (202, &c.)-but should vascular debility, or the blood being in a loose difforved state, be the cause, we must depend upon aftringents and tonics, paticularly bark and the vitriolic acid-creating naufea and gentle vomiting is recommended, as advited, (391. -if by these means a period is put to the hamorrhage, the body should be kept in a state of perfect quietude-if coslive, aperie ats and glyflers fhould be exhibited, and a paregoric should be given at night. And as almost all active hamorrhages arise from too great plenitude, occasioned by the suppression of some natural discharge, particularly in young full habits-in older conftitutions. which are supported by plentiful, or more copious diet -whence they are preceded by pain and fullness of the head, occasioning drowlineis --- in order, therefore, to form a preventive plan, abstinence is necessary, keeping the head cool, the body open, making the flightest suppers, and those of the most light and refrigerating diet; but they are altogether better avoided.

§ 4. VOMITING OF BLOOD, OR HEMATEMESIS. (390.)

The characteristic marks of this disease are, frequent nausea or essorts to vomit, and at the same time a rejection of bloody materials by the mouth, mixed with such as have before been swallowed—from whence the stomach feels some alleviation; but the blood vomited up is grumous—and the stools which, succeed afterward; are black.

CURE. In these cases, though bleeding may be sometimes necessary, it must be cautiously repeated -- we must be governed

by the strength of the patient, which is sometimes apt to fail suddenly—the pulse readily stags;—the sanguinary sinx is apt to be extremely copious, and often occasions sainting.—Nor should any thing be given that is likely, in the least degree, to be often-sive to the stomach.—As therefore it is clientally neetslary to have the body kept open, we must depend upon glysters chiefly—though rhubarb in small doses, if the stomach will bear it, has been recommended.

Weak, broths, with fome of the aftingent vegetables unboiled;—fuch as plantain—ground ivy—cup-mols—nettles—or rather their expressed juice, may be given—intution of red roles—floes—or cold water, acidulated with the vitriolic acid—may be administered as drink—also ices—and at night gentle opiates, mixed with aftringents of the milder class;—avoiding all those which are likely to create nausea—fuch as alum, white vitriel, &cc.

In all the different species of this complaint it will be necesfary to proceed in this manner.-But if the suppression of the menses, or of the bleeding piles, should be the cause, these are to be solicited to their natural passages by proper means; or should they arise from affections of the liver, or spleen, such medicines should be exhibited as are calculated to relieve them as much as the state of the stomach will permit.

But here we must observe, that in the middle of pregnancy, they are rarely injurious; but if in sever, they are always satal, if the blood be black and settid; nor should we slatter ourselves with much hope, if they proceed from enlargements of the spleen, or liver, and induration, or should there be fainting to

any degree of severity.

§ 5. BLOODY URINE, OF HAMATURIA. (250.)

In this complaint, the matter passed through the urethra is either pure blood, or bloody uring, that is, urine having acquired intense redness from being mixed with some particles of blood. The most common causes of which are stones, or gravel lacerating the different parts of the urinary passages; but it may be occasioned by venereal excesses, as blood may issue from the seminal vessels (two membranaceous cellular tubes, lying on each side, between the bladder, (50.) and rectum, (45.) on the outside of the vasa deserratia, (53.) and also from the prostate glands; (54.) hence are they considered amongst the causes, as are also disolation of the blood, or violent exertions of the

circulatory powers, in fevere inflammatory fevers, particularly in the fmall-pox.

Whatever may be the cause, two points are to be considered, whether there is an inslammatory, or, putresactive disposition in the blood.

If the former is prevalent, and the habit full, we must bleed, and that repeatedly, till we have taken off the general plenitude, and allayed the intenseness of the action of the valcular system, the bowels should be kept open with faline purges and manna, (172.) and emulsions with gum arabic, and cooling decoctions of liased tea mixed with nitre, should be freely administered, and the uva uss (139.) may be administered, which in this case I have seen extremely essentiates, other astringents are not adviseable.

If the SECOND,...tonics...astringents...and balfamics...as bark...lime water...tincture of roses...alum whey should be had recourse to, to restrain, as quickly as possible, the essua of blood...and by continuing afterwards the use of the bark, joined with the balfam of capivi...drinking chalybeate waters, and using a milk diet, endeavouring to strengthen the tone of the system, and prevent a relapse.

But without either of the conflitutional tendencies above recited, should the cause be a suppression of menses, or piles, and these cannot be restored or solicited to their natural passages—occasional bleeding will be a falutary substitute.

Or should it deduce its origin only from calculi, during the fits of pain we must guard the parts against the effects of their stimulus, by emollient and demulcent remedies, (140-187.)— wherial spirits of nitre, and such like—afterwards we must endeavour to strike at the cause, as recommended in pain of the kidneys. (364.)

Here we must observe, that in all cases of great pain, opiates should not be forgot, especially if stone or gravel is the cause—and, indeed, in discharges from the ureters, and kidneys, the infusion of carrot-feed (No. 123) has not been slightly recommended.

But in all cases of bloody urine, all powerful astringents fould be industriously avoided, lest they should produce too strong a constriction of the passages, and from thence coagulated blood might be restrained, productive of instammation, or forming a nucleus, or basis for a stone.

Sometimes the urine will appear to be extremely high-coloured, as if blood had been mixed with it—of this it is neceffary to be certain;—which may be discovered by fluining the urine through fine linen—perfectly clean—if there should be any admixture of blood, it will be flained of a red colour—if not, there will be no fuch appearance.—And lattly, great care should be taken in properly discriminating between bloody urine, and fanguineous discharges of a gonorrhea, or clap---or from piles making their exit through the urinary passages;—and critical discharges should be distinguished from those that are not.

§ 6. PILES, or Hæmorrholds. (391.)

These have been divided into the OPEN and BLIND---the first, when they are attended with an essuance of blood---the last, when they give no such appearance---or into exterior and interi-

or, from their fituation.

They are not always, however, to be considered as a disease, for they are a very falutary discharge, and sometimes periodic, preventing a number of other complaints, which are apt to appear, on their being imprudently expelled, or stopped .-- I have known people, from this cause, labour sometimes under a variety of internal affections, which have all vanished on their re-appearance. To those afflicted with gout---who are hypochondriacal .-- hytterical -- fubject to complaints of the kidneys, or bladder -- to sciatic pains -- allhma --- mental derangement, and fome others, they are confidered to be highly ferviceable. Hence, whilst they continue moderate, and appear to be a falutary effort of a nature to relieve herfelf from fome fuperfluous load -there is no need of medical affillance. But if they are extremely and constantly painful, or pour forth a large quantity of blood, so that the patient experiences great debility, and grows thin, they then may be confidered as morbid.

Those who are ditposed to become corpulent, eat, and drink freely;—whose habits are relaxed—costive—plethoric—from indolence, or any other cause, are most liable to this complaint; besides, strong purges will also bring them on. These causes induce obstruction in, inflammation, and swelling of, those vessels called hemorrhoidal; whence, about the arms, there will be livid, painful tubercles; from which frequently issue blood, which also sometimes slows without any visible tumour, attended often with a load, and pain of the head, giddiness, and pain

of the loins and anus.

CURE. When there is no efflux of blood, from the piles; they are generally attended with fuch great degrees of pain, that people are afraid of going to flool. Under these circumstances, if people are of full habits, bleeding, abstemious diet, and mild aperients—(No. 3, 22 to 24, 66, 135, or 136.) to take off

the fullness, and preventive cossiveness, should be had recourse to, ---after, warm olive oil may be applied to the part---or diluted preparations of lead (139) with camphorated spirits and lime water; --juice of houseleek----o any of which may be added tincture of epium. The patient should, as much as possible, be kept in a recumbent possure; and, when sitting up, avoid prefure on the parts---or heating them---for which purpose a chair, staffed round the edges, with a vacuity left in the center, should be used.

The dict should be of the mild laxative, emollient kind, nor any thing taken which can heat, or cause the blood to circulate

with too great freedom.

WHEN THE PILLS ARE OF THE BLEEDING SORT, and it becomes necessary to stop the slux of blood, cloths dipped in vinegar and water may be applied to the loins, and anus, which failing, or not foon focceding, a gentle emetic may be administered, (No. 11.) and after the operation, the anodyne draught, (No. 4.)

In these cases, the indications of cure are very obvious. To take off the superincumbent pressure from, and lesson the action of the vessels, towards the affected part; to strengthen the tone

of the veliels relaxed, and take off local irritation.

But as these discharges are brought on by infarctions and obfunctions of the liver, other things are necessary to be done, in order to prevent a relapse; for under these circumstances patients are liable to frequent returns; hence, in order to remove the causes, we must have recourse to such medicines and regimen as have been advised in pain of the liver from those sour-

ces (Page 351.)

Sometimes this difease will arise merely from want of ftrength, and tone in the rectum, (46.) - Preparations of iron, (139.) united with bitters, as quaffia wood-gentian-chamomile-and fuch like, and continued for fome time, are highly beneficial, -and bathing the parts with a sponge dipped in cold water, twice every day .- And in every species we must carefully avoid all aloctic aperients-for they are too apt to flimulate the redum, -nay, rhubarb will fometimes have this effect; hence, as it is of the utmost confequence to keep the body open, should there be occasion, and that moderately; for strong purging will exafperate, rather than alleviate the complaint, the gentlest aperients, (171, 172.) should only be insisted upon, and those given in such quantities, and at fuch intervals, as merely to keep the bowels empty. This difease has been observed also to originate from excess of grief, long continued, as well as from a profusion of the mentional discharge—and most probably is caused by a general relaxation of the folids, brought on by a torpid state of the nervous system; whence the sluids, deprived of proper circulation from the inactivity of the vascular propultive power, form

congestions, which fix in these parts.

Changing the scenes of life—travelling—diffipating gloomy ideas by seeing new objects—and diverting the attention, are amongst the best calculated remedies, in these cases—which have been greatly aided by taking sour spoonfuls, three or four times a day, of back insused in lime-water. (No. 137.)

Where the piles have continued a long time, occasioned by a continued acrimonious looseners, I have known them cured by gentle vomits—small doles of ipecacuanha in a strong decoction of nettles and opiates—administering after the pain had ceased, and the looseners perceptibly abated, bark joined with chally beates.

লবনৰ নৰনৰ নৰনৰ নৰ**াক পূ**ৰ্ণ ক্ষ্ণিছন ছলছন ছলছন ছল

C H A P. III.

ON FLUXES.

When the Serum or Lymphatic Part of the Fluids are evacuated in too copious Quantities.

A LL fluxes may be faid to be of the ferous kind, which depend upon an evacuation of some of the ferreted fluids, and are neither of the alvine nor fanguineous class. In this place, however, we shall treat only of the

DIABETES.

from diabaino, permeo, to pass through, or a

MORBID DISCHARGE OF URINE TELEPRINE

When, therefore, the evacuation of urine happens in fuch quantities, be the colour or faell what it may, so as to bring on emaciation, or falling away of the shell-weakness—loss of appetite, and thirst, we may consider it as a disease under this denomination.

DESCRIPTION. Belides an unufual flux of urine, it is accompanied with fevere thirst—the mouth is clammy and dry—

and the patients spit up frequently frothy saliva—they complain of heat in the viscera—the urine is limpid, sometimes sweet, and has generally not an unpleasant smell—there is a kind of fullness of the loins, testicles, and feet—hectic tever—after which succeed a tabes, and death.

It feldom attacks young people, but those advanced in the latter stages of life, who have been used to drink steely of vi-

nous liquors, and employed in the feverer occupations.

CAUSES. The remote or inducing, preceding febrile difeases, particularly if they are subdued by immoderate evacuations—too long continued use of acidulated waters, particularly in a cold climate, or diuretic medicines—also the bite of a serpent called DIPSAS, from the Greek word dipsa, sitis, thirst, because it occasions so great thirst as often proves mortal.

The proximate or immediate, an increase of action of the secretory vessels of the kidneys, ariting from a state of relaxation, and a thin acrid ferosity of the circulating sluids, and a too pow-

erful determination of them to the kidneys.

CHARACTERISTIC SIGNS. A preternatural discharge of urine, immoderate in quantity, and of long continuance, attended commonly with lois of appetite, emaciation, and hestic

fymptoms.

CURE. The indications are, to lessen the action of the secretory vessels, by altering their relaxed state, and correcting the too great serosity and acrimony of the sluids—hence we must apply to the use of inspissants, diaphoretics, stimulants, and tonics—and as soliciting a slow of liquids to the skin will prevent too great a determination to the kidneys, in order to keep a free and constant state of perspiration, the patient should wear a stannel shirt next the skin, use moderate exercise, and dry friction.

Alum whey is firongly recommended, (No. 13%) four ounces to be taken at least three times a day—lime-water drank also, whilst the warmth in quenching continues, taken as freely as the thirst requires, has been said to exceed the use of Bristol water, which by some has been considered as a specific in this disease—half an ounce, or six drams of oak bark insused in two pints of lime-water, and the chaly beate waters, have had their powerful advocates.

"White vitriol is a ufeful affringent, (139.) but fome depend on half a grain of blue vitriol given twice a day in any proper

liquid.

Preparations of iron, (130.) or elixir of vitriol joined with bank, (193, 194.) are no inletior tonics; and, by strengthening the habit, contribute much in the promotion of perspiration.

Rhu-

Rhubarh. (173.) has been recommended as efficacious in laying the four-aron for the fuccels of antispalmodies.

As a thimulant, tincture of canthandes, (175.) is by some in

this case looked upon as a specific.

Notwith tanding the thirst is a very diffresting symptom, aqueous liquids should be avoided—they should be impregnated with some infossibility ingredient, as comfrey-root, or made with lime; and these should be used as common drink—boiled meat is less useful than roasted—broth made of beef may be allowed—shell-sith—wild sowl—jellies in small quantities, and often repeated—tapioca, milk, rice gruels, and such similar viands, may be permitted.

Opiates also at night will be ferviceable given with some pre-

parations of iron and d'aphoretics. (No. 139.)

This difease fometimes affects hysteric patients, who pass large quantities of limpid urine; hence it is called hystericus—fometimes it supervenes intermittents; hence denominated intermittens—fometimes it attacks people worn out by the gout, in whom, during the painful fits, the urine is small in quantity, and turbid; but in the intervals of the ditcharge, from perspiration being defective, becomes clear, watery, and copious.

To the general plan, which we have before laid down, we must therefore subjoin antispasmodics, under the first circumstance—under the second, tonics, particularly back—and under the third, invigorating cordials, agreeable to the specific nature of the case. See Hysteria, Intermittent Fever, and

GOUT.

Sometimes people will be affected with a morbid evacuation of fweat, where that discharge is remarkable for its quantity, quality, and unseasonableness—this is called

§ 2. Ephidrosis, or Morbid Evacuation of Sweat

from ephidroo, fuderam movere, to occasion sweating, which is proportionable to the quantity of perspirable matter contained in the blood, to the velocity with which it is separated, and to the heat or laxity of the pores of the skin—when it arises from an increased circulation of the blood, it is active—when it depends upon the laxity of the skin, and superabundance of serum, it is passive.

When the fweat is cold, it denotes superabundance of perspirable ferum, and a relaxed state of the skin-when warm, velo-

city, and, at the same time, serwity of the blood.

But when these profuse sweatings are connected with miliary, hectic, or other severs, we are not to consider the discharge as a disease which requires management particularly adapted to itself, we must endeavour to destroy or evacuate the seeds of the

febrile affection, as by that means only can we conquer its confequences; for in those cases the sweating is purely symptomatic.

But when profuse discharges of the skin come on without any evident cause or sever, slowing chiefly in the nights, and occasions falling away of the sless, loss of strength and appetite, with lowness of spirits, it then requires medical assistance.

CURE. Here are indicated a diversion of the flow of fluids, a decrease of their ferocity, and our endeavours to give general

force and tone to the fystem.

Hence purgatives, at proper intervals, will answer the first and second indications—tonics and strengthening medicines the last, such as preparations of iron, bark, bitters, steel waters, moderate exercise, and the use of the cold bath—to which we would add, the frequent administration of milk.

Properly supporting, and judiciously increasing the alvine discharges, are in this case extremely beneficial; for these divert the flow of fluids from the skin, as in the former case increasing perspiration solicited the humours from their determination to

the kidneys.

When this complaint arifes, as it fometimes does, from a fcorbutic acrimony, and the blood being in a loofe diffolved flate, which is very often succeeded by that species of consumption called ATROPHY—the sweat pours forth in the middle of winter under the slightest covering, and at the same time affects the patients with restlessings and anxiety; nor do they cease till the vitiated humours are in a great measure discharged by this cuticular flux.

Here, as well as where the fweats are of different colours, the remedies recommended are, the juices of fresh vegetables, subacid fruits, and the use of tonics, particularly bark.

THE

FORMS OF MEDICINE

from Luge 240

PRESCRIBED AND REFERRED TO IN

MIXED, REMITTENT, INTERMITTENT, AND ERUP-TIVE FEVERS --- ALSO IMFLAMMATORY, PAINFUL DISEASES, AND FLUXES.

No. 70. BARK DRAUGHT.

Take Decoction 1 ounce. Tincture dan ounce. Powder of each 10 grains. Extract Syrup of Quinces,

Mix .---

71. INFUSION OF QUASSIA WOOD AND SNAKE-ROOT.

Take of Quaffia Wood, Snake-root,

1 dram. Boiling Water, 1 pint.

Infuse .-- Dose. Four spoonfuls.

72. OAK BARK BOLUS.

Take of Oak Bark in Powder, 6 grains. 3 grains. Alum, Chamomile Flowers in powder, 8 grains. Syrup, fufficient to form a Bolus.

To be taken every third or fourth hour .-- The Extract or Powder of the Scale Cup may be used in the same proportion---or the Pomegranate Bark, and Chamomile Infusion, (No. 60.) may be also exhibited.

No. 73. BARK GLYSTER,

Take of Bark Decoction, Distiled Water. Extract of Bark, -

of each 2 ounces.

1 1-2 dram.

Olive

Olive Oil, Tincture of Opium, 8 drops. Mix .-- And let this be thrown up every fourth hour.

74. BARK CREAM.

Take of Bark Powder,

Extract of the same, 2 drams. Cream, A. Sugar, 1 I-2 ounce. 3 drams.

Mix .-- Dose. Two or three spoonfuls every second, third, or fourth hour, according to the exigencies of the cafe.

75. ASRINGENT DRAUGHT.

1 1-2 ounce.
2 drams Take Cinnamon Water, Spirits of Cinnamon, 2 drams
Electuary of Scordium, 1 feruple. Syrup of White Poppy Heads, 2 drains,

Mix.--

or---76.

of Infusion of Roses, 2 ounces.
Spirits of Cinnamon, 2 drams.
Extract of Logwood, 10 grains. Take of Infusion of Roses, Syrup of White Poppy Heads, 2 drams.

Mix .-- Either of these may be given every three or four hours, --- or the quantities of these may be enlarged, and formed into mixtures, of which two or three spoonfuls may be administered occasionally.

77. ASTRINGENT OPIATES.

Take Infusion of Roses, 2 ounces. Columbo-root powdered, 10 grains.
Tincture of Opium, 6 drops. Syrup of White Poppy Heads, 1 dram.

Varrana.

Take Infusion of Logwood, for each 6 drams. Tincture of Catechu, 2 drams.

Opium, 6 drops.

Syrup of White Poppy Heads, 1 dram, Mix .-- Either of these may be taken every fifth or fixth hour. Take Prepared Calomel, 2 scrupies. --- Crabs Eyes, 2 drams.

Tartarized Antimony, I grain-Let these be rubbed well together, and ten or twelve grains administered for a dose.

80. PURGING POWDER.

Take Rhubarb, 6 grains. in powder, 3 grains. Ja'ep, Ginger, E I grain.

Mix.

81. OILY EMULSION.

Take Oil of Sweet Almonds, 1 ounce. Gum Arabic, 2 drams. Fine Sugar, 1-2 an ounce.

Mix there well together, then gradually add

8 ounces.

Decoction of Barley, 8 ounces
Dose. Three or four spoonfuls often in the day.

82. OILY LINCTUS.

Take Oil of sweet Almonds, 1 ounce. Gum Arabic, a drams. Syrup of Marth-mallows, 1 1-2 ounce.

Mix these well together. Dose. Two or three spoonfuls often in the day, or, it may be acidulated with a few drops of dilute vitriolic Acid-or, an ounce of Syrup of Lemon may be added.

01--83.

I ounce. Take of Oil of Sweet Almonds, Gum Arabic, 3 drams.
Syrup of Wild Poppy, 1 1-2 ou I 1-2 ounce.

Dilute vitriolic Acid, which will give it a grateful aci-

dity. Mix. - Dose, as above.

84. SPERMACETI MIXTURE.

Take spermaceti, (dissolved in a proper quantity of Mucilage of Gum > 1 1-2 dram Arabic, or Yolk of an Egg,)

.Cinnamon Water, 6 ounces. Syrup of Wild Poppy,

Mix. - Dose. Two table spoonfuls occasionally. No. 85. DISCUTIENT FOMENTATION.

Take of common Fomentation, 2 pints. Crude Sal Ammoniac, 2 drams.

Common

Common Vinegar, Spirits of Wine,

of each 2 ounces.

Mix-

86. CAMPHORATED LOTION.

Take of fimple Lime Water, Common Vinegar, Camphorated Spirits,

of each 4 ounces.

Mix .-

87. ALTERNATIVE MERCURIAL PILLS.

Take Gum Guiacum. Calomel prepared, 1 dram. of each 2 scruples.

Precipitated Antimony,

Balfam of Capivi, sufficient to form these into a mass

-and make of every dram twelve pills.

88. DECOCTION OF THE WOODS.

Take Sarsaparilla,

3 ounces.

Guiacum Wood, Saffafras Shavings,

of each 1 ounce.

Boil these in three pints of water till they are reduced to two adding towards the close,

> Liquorice-root bruifed. Then strain it for use.

I-2 an ounce.

or---89.

Take Sarfaparilla, 2 ounces. Bark of the Root of Mezereon. 1-2 a dram. Boil these in the same manner as above, and add the liquorice:

90. ANTIPUTRESCENT LOTION.

Take of Lime Water, Camphoraed Spirit, Spirit of Sal Ammoniac,

16 ounces. 3 ounces. 1-2 an ounce.

Mix .---

OI. ANODYNE EYE WATER.

Take Rose Water. Tincture of Opium, 2 ounces. 2 drams.

Mix.---

No. 92. VITRIOLIC SOLUTION. Take Purified White Vitriol, 6 grains. Rose Water.

Tincture of Opium,

2 ounces. 30 drops.

Mix---

93. DETERGENT GARGLE. I homeno

Take Decoction of Barley, Common Vinegar, Tincture of Myrrh, Honey of Roses,

8 ounces. 1 ounce. . I-2 an ounce.

94. AMTISEPTIC GARGLES.

Take Tincture of Rofes, e Tincture of Rofes,

Honey of Rofes,

6 drams. Tincture of Myrrh,

1-2 an ounce.

Spirit of Sea Salt, fufficient to create an agreeable acidity,

Mix.

95. EXPECTORANT MIXTURE.

Take Pectoral Decoction, Ammoniacum Milk. Oxymel of Squills,

8 ounces. or each 3 drams.

or-96.

Take Acetated Ammonia, Distilled Water, Myrrh in powder, Nitre purified, Vitriolated Steel, Balfamic Syrup,

2 ounces. 5 ounces. 40 to 60 grains: I-2 a dram. 15 grains. 6 drams.

Mix .- Dose. Three or four spoonfuls two or three times a day.

07. SALINE PURGING MIXTURE.

Take Epfom Salt, 6 ounces. dissolved in Boiling Water, 1 pint. DOSE, Two or three spoonfuls every half hour.

98. OILY PURGING MIXTURE.

Take Oil of Castor, Distilled Water.

2 ounces. 5 ounces.

Unite them with a proper quantity of the Yolk of Egg, or Mucilage of Gum Arabic, and then add

Syrup of White Poppies, 1-2 an ounce. Mix.-Dose. Two spoonfuls every second hour.

or—No. 99.

Take of Oil of Sweet Almonds; . Manna. Rochelle Salt.

I ounce. I ounce. 6 drams.

dissolved

dissolved in Infusion of Senna, . 6 ounces. Mix, as before directed, and let this be taken in the same manner.

100. PURGING PILLS.

Take Jalap in powder, Polychreft Salt, Venice Soap

Opium,

of each 1-2 a drain. I grain.

Let these be formed into fix pills for a dose.

or-101.

Take Extract of Jalan,

Resin of Jalap, Calomel prepared, Opium,

19 grains.

of each 3 grains.

I grain. Syrup of Roses, sufficient to form four pills for a dose.

102. SUPPOSITORY.

Take of Honey,

of each an equal Common Salt, duantity.

Boil them to the confistence of a fost pill, and roll a portion of this up about the thickness of a Goose's quill, and an inch long, which pass into the rectum-Aloes, Bitter Apple, or fome other ingredient of this fort may be occasionally mixed with them.

109. IRRITATING GLYSTER.

Take the Decoction for Glysters, 1-2 a pint.

Tincture of Aloes, 1 ounce. Commou Salt, Linseed Oil,

2 drams.

2 ounces.

Mix.

104. PURGING ANTIMONIAL MIXTURE.

Take Distilled Water. Epfom Salt,

Tartarized Antimony, Syrup of Roses,

5 ounces. 2 or 3 grains.

6 drams.

Mix.

No. 105. CALOMEL BOLUS.

from 3 to 6 grains. Take Calomel prepared, Tartarized Antimony, 1-8 of a grain.

Mix, with the addition of Syrup, into a bolus, to be taken at

bed-time, and in the morning after the following draught:

106. PURGING DRAUGHT.

Take of Infusion of Senna,
Tincture of Aloes,
Tincture of Senna,
Syrup of Roses,
Spirit of Lavender.

2 onnces.

1-2 an ounce.

3 drams. Field out.

1-2 an ounce.

2 drams.

Mix .--

107. VOLATILE OPIATED LINIMENT.

Take of Soap Liniment, or the Lindment of Ammonia, Tincture of Opium,

} 2 ounces.

2 drams.

Mix --

108. ALOETIC PILLS.

Take Extract of Bitter Apple with Aloes, 1 1-2 dram.

Calomel, 20 grains.

Oil of Carraway-feeds, 10 drops.

Syrup of Roies, a fufficient quantity to form pills.

Dosf. From ten to twenty grains.

109. APERIENT SOAP PILLS.

Take Venice Soap,

Rhubarb powdered,

Calomel prepared,

Syrup of Ginger, sufficient to form pills.

Dose. Twenty grains.

iio. SEDATIVE LINIMENT.

from 10 to 20 drops,

Mix.-

117 SEDATIVE FOMENTATIONS AND WHILE

Take the Heads of the White Poppy } 4 in number.

Let there be boiled in forty ounces of Water to twenty, then add,
Vinegar, .

Fixed Ammeniacal Salt,
5 drams.

Mix .-

No. 112. OPIATED PLAISTER STANK

Take Burgundy Pitch, a quantity sufficient to form a plaister of a proper size, to which add ten grains of Opium.

112.

112. OPIATED CORDIAL MIXTURE.

Take Peppermint Water, 6 ounces. Spirit of Juniper, Spirit of Jumper,
Opiated Confection, I ounce. 1 dram. Syrup of Saffion. 1-2 an ounce-

Mix .- Dose. Three or four spoonfuls.

114. GLYSTER WITH BITTER APPLE.

Take the Common Glyster Decoction, 8 ounces. in which boil was a second agree on the control of

2 drams. Senna. Bitter Apple 1 7 7 1 1 1 1-2 a drame

ftrain, and add,

Linfeed Oil. Honey, I ounce-Sal Ammoniac. 2 drams

Mix.

115. PURGING PILLS.

Take Refin of Jalap, or 5 or 6 grains.

Scammony, Rub these well with Mucilage of Gum Arabic, and Crumbs of Bread, sufficient to form thee or four small pills.

116. SEDATIVE GLYSTER.

Take Common Glyster Decoction, or 3 6 ounces-Barley Water, Tincture of Opium, Mithridate, 1 1-2 dram-

Mix.

117. DEOBSTRUENT SOAP PILLS.

Take of Soap, of each a drama Myrrh, Ammoniacum, Ammoniacal Iron, 1-2 a dram-Rhubarb in powder, I dram.

Syrup of Roses, sufficient to form pills.

Dose. Fifteen or twenty grins.

No. 118. OPIATED EMPLSION.

Take Castor Oil. 2 ounces 1 1-2 ounce-Tincture of Senna. ---Opium, 40 drops Peppermint Water, grant of ounces. 38% Syrup of White Poppies, 1-2 an ounce-

Mix. Dose. Three spoonfuls.

119. OPIATED ANTIMONIAL POWDER:

Take Antimonial Powder, Opium,

4 grains. 2 grains.

Rhubarb in Powder, To be administered every eight hours.

t grains,

120. VITRIOLIC MIXTURE.

Take of Blue Virriol. Diffilled Water, 1 1-2 pint.

I-z a dram.

Mix -- Dose. From one tea-spoonful to two table-spoonfuls every two or three hours, till it produces its effect.

121. BALSAM OF PERU DRAUGHT.

Take of Balfam of Peru, from 10 to 30 grains. Micila e of Gum Aarbic, sufficient to mix into a draught, with

Peppermint Water. Syrup of Ginger, 2 drams.

1 I-2 Ounce.

122. TEREBINTHINATE MIXTURE.

Take Æthereal Oil of Turpentine, from 1 to 2 drams. Mucilage of Gum Arabic, sufficient to form a mixture. 6 ounces.

Peppermint Water,

Tincture of Rhubarb, I ounce.

Syrup of Saffron, 1-2 an ounce, Dose. Four spoonfuls two or three times a day.

123. INFUSION OF CARROT-SEED.

Take the Seeds of wild Carrot. 1-2 an ounce. Boiling Water, 1-2 a pint.

When cold, add to it a little Milk and Sugar, and drink it twice a day.

124. TEREBINTHINATE GLYSTER.

Take either of the Glysters, No. 25, 26. in which disfolve, by means of the Yolk of Egg,

Venice Turpentine, 2 drams.

No. 125. ANTIMONIAL NITRATED POWDER:

Take Antimonial Powder, Nitre purified, Crabs Claws prepared,

3 or 4 grains 10 grains. 8 grains.

Mix.-

126. VOLATILE SALINE MIXTURE.

Take Water of Acetated Ammonia, 2 ounces. Polychrest Salt, 1 1-2 dram.

3.F 2

Syrup.

1-2 an ounce.

Syrup of Wild Poppy,

Pennyroyal Water, Mix. 127. MUSTARD WHEY Take Bruised Mustard-seed, ' ounce. Cowls Milk. I quart. Boil them together, and strain off the Whey-128. GUM GUAIACUM DRAUGHT. Take Gum Guniacum, from 20 to 30 grains. Mucilage of Gum Arabic, fufficient to form a draught, Peppermine Vater, with 1 1-2 ounce. from 20 to 30 or 40 Compound Spirit of Ammonia, drops. Syrup of Saffron." 2 drams. 129. GUAIACUM AND CALOMEL BOLUS. Take of Gum Guaiacum, 20 or 30 grains. 3 grains. Calomel prepared, ... Oil of Carraway-feeds, 2 drops. Conserve of Orange-peel, 20 grains. Syrup of Saffron fufficient to form a bolus-130 STIMULANT PLAISTER. Take of Soap Plaister, equal parts. Gum ditto, Powdered Spanish Flies, 1-8 part of the whole; Mix. 131. ANTIMONIAL CORDIAL DIAPHORFTIC BOLUS. Take of Atimonial Powder, 3 g'ains. Camphor, of each 4 grains, Volatile Salt of Hartshorn 10 grains. Aromatic Confection, Syrup of Saffron, sufficient to form a bolus. No. 132. CAMPHORATED LINIMENT.

133. NAUSEATING POWDER.

2 drams.

1 1-2 ounce:

Take ipecacuanha Powder, 1 grain. Nitre, or Aromatic Powder 10 grains To be taken every third hour.

Take Camphor,

Oil of Almonds,

134. DECOCTION OF SEMIRAUBA.

Take of Semirauba Bark. 2 drams.

Distilled

Distilled Water,

20 ounces boiled to 10 ounces.

Dosz. Four spoonfuls.

. 135. APERIENT COOLING SOLUTION.

Take Vitriolated Natron,

2 drams.

Nitre. Dissolve them in one quart of Water-gruel, then add, Syrup of Roses, 1 ounce.

Mix ... Dose. Eight fpoonfuls.

136. GENTLE APERIENT ELECTUARY.

Take Compound Electuary of Senna, 11-2 ounce.
Precipitated Sulphur, 3 drams. 11 Syrup of Refes, sufficient to form an electuary.

Dose. Quantity of a Nutmeg.

137. TONIC INFUSION.

Take Peruvian Bark in gross powder, 2 ounces. Infuse it for three days in.

Lime Water.

strain and add.

Tincture of Cinnamon, 1 ounce.

Compound Spirit of Lavender, 1-2 an ounce. Mix ... Dose. Two ounces.

138. ALUM WHEY.

Take Cow's Milk,

2 pints.

Alum, 3 drams. Boil these together, and strain off the Whey for use. Dose. Four ounces.

No. 139. OPIATED CHALYBEATE BOLUS.

Take of Ammoniacal Iron, Powder of Antimony.

8 grains. 6 grains. I grain

Opium, or Tindlure of Opium,

25 drops. Conserve of Roses, i fcruple.

Syrup of Quinces, sufficient to form a bolus.

Se forms buttineed hage 527

SECTION XVI.

NERVOUS AFFECTIONS.

NDER this head we are to enumerate those particular complaints in which the nerves are primarily and principally

concerned, as the causes from whence disorders of this kind are produced.—And here we shall be under the necessity of reasoning from effects, because we cannot point out the precise mode of the action of the nervous system; for neither from the labours of the anatomists, nor physiologists we are certain of the structure of the nerves themselves, nor of the means by which they produce such a wonderful variety of actions in different parts of the human machine.

We, therefore, in order to avoid cavil, attempt to materialize, as it were, qualities; and speak of the different degrees of influence which this part of the system exercises; and attributes all complaint; arising from this source, either to that influence being too firong, mutable, or too weak, producing SPASM, CONVUL-SIQN, or PALSY ;-according, therefore, as we find the different parts subservient to nervous influence affected, so do we consider the different states of its power. And if we add to the account the different degrees of muscular irritability inherent in the habit, which de confider as independent of nervous influence, yet for its continuance supported by that influence, (27.)—we shall be furnished with a tolerable clear idea of the nature of different nervous complaints, fo called, and be enabled to conceive, pretty diffinctly, the reasons why such an amazing variety of affections can arise from one and the same source; for in spasmodic affections, the mulcular fibres, thrown into a state of contractility, remain in that state for some time; in convulsive, contraction, and relaxation take place, and alternate with each other-(145, 146, 147.) and in paralytic there appears to be a deprivation, or debility of that influence; as well as fometimes an alteration in the irritable power of the muscular fibres, with respect to the different degrees they possess. In the order we have let down these nervous complaints, shall we treat them; and first-of spasmodic affections :-

C HA P. I.

1. TETANUS;

So called from the Greek word teino, firmo—and its varieties —EMPROSTHOTONOS—from emprosthon, ante, before—episton, pone, behind—and TRISMUS, from trizo, stridor. These are marked by different appearances arising from similar cautes.

The

The TETANUS—is a spattic rigidity of the whole body—commonly continued—and involuntary; if it is bent forwards it is called EMPROSTHOTONOS—if backwards, OPISTHOTONOS—when the jaws are fixed close, TRISMUS, or locked jaw.

This complaint is most commonly met with in hot countries, where it is considered as endemial, particularly in rainy seasons succeeding those which are hot, or in such where there are sudden changes from excreme heat to extreme cold, as in South Carolina—among those who imprudently expose themselves to the night air.—In the more temperate countries it is very rare-

ly met with as an original disease.

DESCRIPTION. In tetanus the body grows stiff, and appears like a species of wood, from the equable contractility of the muscles before and behind—a spasmodic affection is selt below the breast bone, verging to the spine—when the spasms are violent, most acute pains come on—the sace is red and distorted—the cheeks are drawn backwards—the eyes fixed—the jaw sometimes locked—the pulse most frequently is slower than what is natural—and should blood be taken, its texture appears to be less firm—there is much difficulty in respiration—the body is costive—the natural actions only are not suppressed, and the sense both external and internal, remain perfect—the ribs curve inwards—and if the disease should be conquered, the patient continues a long time in a state of great debility.

In the two fucceeding varieties, the neck at first becomes immoveable—afterwards, by strong spasms, it is drawn either backwards or forwards—the motion of the jaw and the act of swallowing are impeded—the spasm under the breast-bone brings on others which are more violent—the pulse is sometimes slow and hard—at others small, sluctuating, and irregular—the tongue grows rigid—a bloody kind of froth issues from the mouth—the muscles of the spine and inserior extremities are drawn into similar action—at length, either by the spasms becoming more violent, or from an epileptic attack, the unhappy patient expires.—In the third variety, the distinguishing symptom is, a strong contraction of the muscles which elevate the lower jaw.

These diseases are of the most dangerous nature, as very sew survive the third day, without they come on gradually; and in that case, if the patient can get over nine or ten days, there is a greater chance of a recovery—hence, from the manner of the attack, it is that we are to estimate the degrees of danger.

CURF indications here, are to take off as speedily as and afterwards to give tone

to the fystem—and these are done chiefly by the bold adminifiration of opium, and the warm bath; for opium given in this way has been known to cure when every other remedy has been tried in vain.

The quantity of opinm to be given at a dose, and its repetitions, depend upon the violence of the spasms - therefore, from one or two residence may be given every hour in any convenient vehicle, and the dose may, according to the urgency of the symptoms, be occasionally increased; for in these cases it never stupists—it may be advantageously used with other spasmodies, particularly atasectida or musk; and these skewise must be freely exhibited; glysters also of opinm assolved may be thrown into the intestines, joined with oil or turpentine, diffelved in the yolk of an ega; and these must be often repeated, particularly if there is any difficulty of swallowing, or the jaws are closed.

The body must, if possible, be kept open by doses of manna, Polychrest, Glauber's, or Rochelle salt, or that of Epsom, formed into emulsions, with oil of almonds and tincture of sennation castor oil will, perhaps, better answer the purpose. (See No. 07, 98, 99, 118.)

97, 95, 99, 118.)

With regard to warm bathing, those who recommend it order the patient to I'e along the bath, and, whilst they are in it, frictions used—when taken out, to be wrapped up wet as they are in warm blankets, and put to bed, having, whilst there, the abdomen fomented, and a bladder full of warm water laid upon the stomach.

The copious exhibition of back and wine, two or three ounces of the former, and from two to three pints of the latter, in the space of twenty-four hours, have, from their success, been recommended; along with which a blider was applied to the black, and two or three ounces of mercurial ointment subbed into the throat, in the space of ten days.

Cold bothing has also been used with some efficacy, and seemed to answer, though the patients were plunged into the water during the violence of the fits of pain and spatial—Oil of amber and slowers of zinc have been recommended amongst the pow-

erful antispasmodics in these cases

From the very different methods used by practitioners in these complaints, which seem, according to our conceptions, to produce such opposite actions on the habit, and both proving successful, I should conclude, that the nature of the habit constitutes the necessity for this deviation.

In conflications, therefore, which were athletic and robust, with

with a hard full pulse, I should not hesitate to bleed, and have recourse to the sedative mode of opium, joined with antispasmodics, and warm bathing.

In fuch as were relaxed, and shewed evident figns of debility, to the stimulant and strengthening: of bark and wine, joined with antispasmodics—blistering—and the cold bath—and in

both, to the local application of mercurial inunction.

And when it proceeded from any local affections, cut off all communication between the part affected and the common fenforium, by dividing the nerve, or amputating the part; for this has proved fuccetsful, by removing the irritable cause, which sympathetically induces such dangerous spasmodic affections—and in cases of locked jaw, a blister should be applied to the throat.

After the disease is conquered, in order to prevent a relapse, and recruit the strength of the patient, we should have recourte to bark and chalybeates, cold, or sea bathing, and such other modes as we have formerly recommended to people recovering from other severe diseases.

Convulsions,

from the Latin word convello, to shake or pull, are disferent in their appearance, though affections of the nervous fyltem, from the former; for in all tetantic complaints the mufcles continue for some time in a state of contractility—in these they suffer some agitation, by quickly contracting and relaxing -- as if in tetanus muscular irritability was so powerful, and the tone of the muscular fibres fo strong, as to be capable to continue the contractile force of the mulcular fibres, brought on by the increafed nervous influence --- in convulsion, as it there was a deficiency of that irritable power, and the tone of the mufcular fibres fo much in a debilitated state, that relaxation must unavoidably take place, the muscular fibres, from the want of that strength, being capable of maintaining that action only momentaneously -or they may arise from the nervous influence, though more powerful than natural, only being exerted in a less degree; tor we find tetanus and convulsion will arise from similar causes. and never run one into the other --- hence have they been divided by authors into tonic, from teino, firmo, to firengthen, and clonic, from kloines, moves, to move or shake.

Convulsions, therefore, are to be considered as affections of the nerves, by which the muscles are thrown into involuntary contractions and relaxations, whilst, at the same time, the saculties of the mind, and the external senses, remain perfect----Now as these, though different in some peculiar appearances, differ

a G

not from epilepfy, but acknowledge the fame causes, both remete or inducing, proximate or immediate, and similar methods of cure, we shall proceed to speak of that disease:

§ 3. Epilepsy, or Falling sickness;

fo called from the Greek word cpilambanestbai, disuper depreherdi, to be seized from above. It has various other names, as morbus comitialis, because it was observed frequently to attack people whilst in those affemblies called comitia-morbus ficer, divine disease, as appertaining to divinity for its instiction or cure--- purilis. because of its frequency in children-Hercu-

lus, on account of its violence, and difficulty of cure.

It is a fudden deprivation of the internal and external fenses, with violent atternate contractions and relaxations of almost the whole of the muscles of the human machine, termed convolutive,—of which there are faid to be three species—cerebralis, from affection of the brain, when it owes its origin to some imperceptible cause, preceded by no uneasiness, except giddiness or loss of sight—when it arises from any manifest cause, and is preceded by some singular sensation, mounting upwards from different parts of the body to the head it is termed sympathica, as deriving its origin from sympathetic affections—when from perceptible irritation the sit is brought on, and vanishes on the cessation of that morbid effect, occasionalis.

It differs from convultion, from being accompanied by total infentibility-in its returning at different periods, though not always regular--in its being a chronic difease, that often, with-

out deftroying life, continues for a feries of years.

DESCRIPTION. The attack of an epilepfy is fomething like that of an apoplexy, the patient falls down fuddenly, deprived o all fente: but then they do not, as in an apoplexy, lie quiet, as if in a prefound fleep--in this it is quite the reverfe, for the whole mutcular fystem is agitated by such violent convulsive motions, that it is almost impossible for the attendants to prevent the un orthographical from hurting themselves---and should, during the violence of the paroxysm, the tongue be caugh, be wint the teath, it will be much wounded, bit through, or, perhaps, a portion bit off.

Sometimes the urine, faces, and femen, from the violence of the convultions, will be forced from the places where they are deposited, and blood will pour from the vessels of the nose and cars; besides, there is for the most part, a good deal of froth foams from the mouth, even in the more slight attacks;—as foon, howeve, as the convultions cease, the patients he quiet, as if alleep; and, in about an hour or two, recover their tenses,

feel

feel fore and fatigued, yet still are forgetful of all which has

paffed-

Some people have been so expert, as to counterfeit these fits so wel, that inattentive observers, though medical practitioners, have been deceived—but we must remark, that a total deprivation of sense and feeling distinguish the true epilepsy—if, then, by the application of strong volatile substances to the nose, or suddenly pricking some sensible part, without mentionin, the intent, they shew evident signs of feeling, the deception may be made obvious.

Sometimes, before the fit comes on, it is ill be preceded by weariness, stupor, head-ach, or giddiness affecting the fight-ringing in the ears--frightful dreams, palpitation of the heart, difficulty of breathing--a fullness of, and rumbling noise in, the belty-- the patients also will make larger quantities of limpid urine than usual-stammer in their speech, their countenance will be pale, their extremities cold, and complain of a fentation

of cold air ascending to the head-

CAUSES. The remote or inducing are, wounds, blows, and fractures of the skull---any stud deluging the brain, or filling the ventricles---an inflammation or mortification off the brain---indurations there, or in the membranes---concretions or polypi within the cavity of the skull, carries of the internal surface of the skull---projections of the bony substance pressing upon the brain-- erosions, lacerations, or wounds of the nerves---the retention of accultomary evacuation, too great sullness or emptiness of the vascular system--strong passions or affections of the mind, particularly sudden and severe frights--noxious particles taken into the machine--poisons, or an hereditary taint; for sew diseases it is allowed, are so hereditary as this, as it is so easily transmitted from parents to their off-pring. For the proximate or immediate causes, see what has been said in treating of convul-sions.

CHARACTERISTIC SIGNS. A convultion of almost all the muscles of the body, particularly those subservient to voluntary motion-with a deprivation of all sensation, and terminating in a state of insensibility and apparent sleep---to which, according to the opinion of some authors, may be added, a toaming of the mouth, and a strong compression of the thumbs within the other singers; for these two are by them considered the certain symptoms of this disease-

CURE. As leveral of the precise causes cannot before death be discovered; or were they, they would be irremediable---we must content ourselves with general modes of cure, and depend upon those applications which have, in a variety or case, from

experience, proved fuccessful---but where the causes are perceptible, and within the reach of our art, they must be particularly adverted to, and removed-

In this complaint, from undifcoverable causes, a variety of medicines, chiefly empirical, have been recommended--unimal oil, oil of amber, (150-)-flowers of lady's smock, twenty grains, increased to thirty, taken in powder twice a day--leaves of the orange tree, a handful boiled in a pint of water for two doses, or in powder, half a dram twice a day--blue vitriol. (139.) twice a day--ammoniacal copper, a quarter of a grain--bark and valerian, joined with cinnabar, (No. 140.)--flowers of zinc, (139.) have been highly spoken of, and said to have performed permanent cures-

According to different constitutional circumstances various

methods have been recommended.

1st, Where the fluids have been acrimonious-or, 2d, in a flat of fullnes—3d, subject to affections of the stomach, from indigestion or foulness—or, 4th, irritation of the intestines, from worms or other acrid materials.

In the FIRST case, courses of mineral waters, which best agree with the confluction-goat's whey-fea-water-with cold bathing.

In the SECOND. These between the shoulders, or on the inside of the thighs—fetons in the neck—occasional bleeding—and the

body should always be kept open.

In the THIRD, emetics given now and then; for they are of service, not only by unloading the stomach, but giving a general shock to the habit; and seem calculated to remove irritation from acrid materials on the origin of the nerves and spinal marrow, or from the dura mater, (26.) which is supposed to be the immediate seat of this complaint.

In the FOURTH, purgatives, joined with calomel, should be administered occasionally, intermediately giving anthelmintics.

(196.)

The mind, at the same time, must be kept free from any uneasy sensation or unruly passion—the diet should be light, and easily digestible—gentle exercise—free, clear air, and whatever will conduce to preserve an equable circulation of the blood, and keep up perspiration, ought not by any means to be avoided; for where there is a predisposition to convulsive attacks, any irregularity is greatly conducive to occasion a renewal.

If the fits should be of long duration, mustard poultices and blisters are advised—thrusting a wedge between the teeth to keep the mouth open-this last is said to prevent even the fit, if applied on any warning being given before the fit comes

on.

When uneafy fensations are felt in the toes, feet, or legs, creep-

ing upwards, ligatures below the knee in these cases have been knowe to prevent the sit-or, in whatever part these affections may be perceived, applying ligatures above the part so affected.

Some, however, advise, during the fit, not any thing to be attempted, except preventing the patients from hurting themselves, by getting the tongue between the teeth; and they are of opinion,

little can be done to thorten the paroxyfm.

Amongst the most effectual remedies, I have generally thought musk, and have used it with success, joined with diaphoreties and tonics—and, in order to prevent the accession or return, accasional emetics and aperients.

Inveterate and habitual epilepsies are irremediable, as is that also which is hereditary, if it continues longer than the age of

twenty-five.

That species callee the BYSTERIC, or UTERINE EPILEPSY, is distinguished from the sex of the patient, from its being intermixed with, or preceded by, hysteric affection—by its following the time of the menses, at its periods—or being brought on by fear, or some such similar cause—and by sensation during the fit, being extremely obscure, though not altogether suppressed.

SYDENHAM fays, in this complaint the patients exert unufual firength, bawl out incoherently and inarticulately, and fmite their breaft; and that women most fubject to this disease, are those who have an uncommonly sanguineous habit, and are high spirited.

Obstructed menses are generally accounted a cause of this disease, which makes its appearance agreeable with the periods of

this discharge.

Should it happen during the flux, besides those things indicated from their discharge and painful excretion, volatile and antihysteric remedies are required, such as oil of amber, spirits of vitriolic aether, castor or animal oil liquor of hartshorn, camphor, musk, &c. (150.)

If from the menses being obstructed, such things hould be administered as are calculated to promote the discharge, as madder-root, (139.) tincture of Spanish slies, (175.) ammoniacal iron, (139.) sabine, (149.) bathing the feet in warm water.

Extract of hemlock, (152.) taken for two months, cured a girl feized with an epileply, who for five years had experienced

many fits.

Dividing the cartilaginous, or griftly substance of the car with a knife, not extremely there, and thick at the back, so that the division may be large, has been successful, procuring and promoting,

moting, at the fame time, a copious evacuation, as long contiaued as possible.

CHAP. II.

PASSIVE NERVOUS AFFECTIONS.

viously of the active fort; but there are others which are affociated with inactivity, with respect to muscular motion, and constitute a class of diseases opposite to the former. These are ranked by authors under the terms DEBILITIES and PRIVATIONS; because of the loss of, or weakened action of particular powers in the constitution, which are the distinguishing characteristics of these diseases.

Dr. Gullen arranges these under nervous diseases; and are known by that propensity to sleep, muscular relaxation, and insensibility, which are their constant concomitants,

But, in order to give a proper idea of these diseases, we should consider the cause of the three predominant symptoms. If we revert back to what has been said, page 27, on nervous incitability, and muscular irritability, and to the introductory part of nervous assections, we shall not be at a loss to account for two of the symptoms.—As for the unnatural propensity to sleep, it is supposed to arise from the nerves not being sufficiently supplied with their proper sluid, either from a desect of the general mass of this enlivening liquid, or from some compression on the nerves, by which its free distribution is impeded.

Hence extreme cold, excessive discharges of blood—corgestion, and over distensions of the vessels of the head, of tanguinary or ferous sluid in the ventricles, (27.) and cellular interstices of the brain—extravasated blood within the crantum—depression, or fracture of the skull, forcing it upon the brain, so as to compress the medullary part, and prohibit the circulation of the nervous sluid from thence to the several organs of sensation, and instruments of voluntary motion, may give rise to this symptom of somnolency, or unnatural propensity to sleep.

Now, where this fymptom predominates over the rest, those diseases come under the general term COMATA, comatous or fomnolent, solent, from the Greek word koma, formus profundus, a deep fleep- and are defined as diminution of voluntary motion, attended with fleep, or a deprivation of fensation.

§ 1. APOPLEXY—APOPLEXIA;

to termed from the Greek applies, desuper percutio, to be think down, is a deprivation of all the internal and external tentes and animal motion, except of the heart and chest, attended with oppressed respiration, and sleep more or less prosound. It has been divided into different species, from the cause—first,

into fanguineous- 2d, ferous:

DENCRIPTION. In the first of these, the apoplectic stroke, at the beginning, is accompanied with a florid, or deep red colour of the face, heat, and full pulfe; though, in the progress of it, the heat and colour recede—and, on these accounts, it is understood to proceed from an internal cause—the veins grow turgid, the eyes half open, but not transparent—the respiration tolerably free, though attended with snoring, or rattling noise in the throat—and the pulse full and strong. It attacks more fundenly than the scrous, without much previous oppression, or unusual sleepines.

In the fecond, from the beginning the pulse is weak, the countenance pullid-the heat diminished, and it attacks old people, acrimonious, phlegmatic, and debilitated habits--and, before the stroke, it is apt to be preceded by an unusual pain, heaviness, and giddiness of the head, and drowsiness—after the attack, the veins are not turgid, the respiration is more straitened, and there is more of the ratching and shoring, with frothy foaming from the mouth, than in the other--and the pulse is neither strong

nor remarkably fall, but inclines to intermit.

Though the apoplectic fit will fometimes come fuddenly onat others, it is preceded not only by a pain and giddiness of the head, but a general torpor of the fenses-flowness of sperch-a trembling and stupor of the extremities-hypochondriac and hyfteric assections-that oppression in sleep called the night-mareinvoluntary slow of tears from the eyes—ringing noise of the

ears--and a deeper mode of breathing than is usual.

CAUSES. The remote or inducing are, furteits, indigestion—too long exposure to the sum—inordinate drinking, particularly about the age of fixty—strong passions, hysteric affections, convulsions, serous collections, libidinous excess, particularly in old men—repulsion of acrid marter, suppression of urine, fallivation interrupted by cold and other causes suddenly—blows and wounds of the head, possons, noxious essuvia, an hereditary

taint—or, indeed, whatever can increase the volume of blood, or occasion a stagnation in the brain, or produce such effects there as will prevent the nerves from exercising their insluence, which is considered as the proximate or immediate cause.

It generally attacks those who lead slothful lives--are corpulent and full of blood--have short necks, are hard drinkers at advanced periods of life--it is also most common in winter and

rainy feafons, and is fometimes epidemic.

The CHARACTERISTIC SIGNS. have been specified;

page, 423. line 3.

CURE. Nature has fometimes, by her own efforts, relieved and remedied this complaint, but feldom, by producing fome copious evacuation, as bleeding from the note, loofeness, or a large flow of faliva, though the cure is generally dependent upon art.

Of whatever nature is the disease, our efforts must be exerted with all possible expedition, to conquer the obstructions, and take off the congestion in the brain, according to the difference of the

obstructing cause.

We must therefore, if the constitution of our patient will bear it, bleed copioutly, and from large orifices; first in the arm; if no relief accrues, then in the foot; and, should the habit be full of blood, the operation must be repeated .- The application of cupping-glasses, with deep scarifications, to the back part of the head is very useful, to unload more immediately the veffels of the hrain-or blood may be taken from the jugular vein, running up the neck into the head-and if the patient recovers fo far as to be able to fwallow, the evacuating plan must be perfifted in-hence quick and powerful purgatives should be administered, (No. 146) --- but, notwithstanding the sanguinary evacuations, should the patient remain in a state of topor, acrid Atlating glysters, (No. 103, 114.) should be immediately thrown up-and, none of these efforts succeeding, blisters should be applied to the legs and thighs-fome advice an actual cautery to the foles of the feet, to stimulate and rouse the constitution.

The pulse in these cases is commonly soft, full, and slow; but when it is more depressed and unequal, and the respiration deep and laborious, in proportion to the excess of these alterati-

ons, death is nearer at hand.

If the difease be of the ferous kind, with regard to bleeding, we must act cautiously; it is rarely requisite; if at all—it must be moderate; or leeches may be applied to the temples—quick and brisk vomits are in these cases most eligible, such as white vitriol, (168.) tartarized antimony, (168.) or antimonial wire, (168.)—after the operation, brisk purges should be given. (175.)

-blisters applied, and slimulating aerid glysters, (No. 103. 114.)

-emetic wine, tobacco smoke: and volatiles, should be given pretty freely, (No. 36, 3;.) and things similar---and, though in the sanguineous species sternucatories and emetics are prohibited, at least before the fullness is absolutely taken off, for sear of bursting the vessels of the brain, in this case they are highly beneficial.

Some are of opinion, that the compression productive of apoplexy seldom or never deduces its origin from extravasation of serum; and think, that whether blood or serum is the case, the same methods are to be pursued to accomplish a cure, as bleeding—brisk purging—applying blisters to the back, legs, and thighs—volatiles and preparations of iron internally, out of the sit—a table spoonful of whole mustard-seed, in gross habits taken two or three times a day—mustard-seed or horseradish insused in wine, two ounces to be taken at the same periods, I consider a more eligible medicine after the paroxism is over; for it is certainly useful to endeavour to recover the tone of the vessels, which are in these cases apt to be too torpid, and have been debilitated by too great a degree of distension.

One common remedy, which is faid to be efficacious in recovering patients from the fit, has been advised, viz, a handful of falt diffolved in a pint of water, and poured down the patient's

throat.

With respect to bleeding, some preser opening the temporal artery, or jugular vein---aud, when no threatening fullness appears, leeches applied to the head, or scarifications with cupping-glasses to the hind head, are esteemed presentable to general bleeding:

Blifters all over the feet are recommended by some, whilst others prefer their application to the head---but, in sine, those remedies are most to be preferred, and the places of application for external remedies, which most speedily promote evacuation.

and remove the torpor or inactivity of the veffels.

I should, therefore, upon the attack, recommend bleeding from the arm, and that repeated, if necessary, till the general fullness was relieved---and blisters, or stimulant poultices to the feet, with purgatives---afterwards local bleeding, and the use of stimulating volatiles---and, in order to prevent a relepse in full babits, (62.) the diet should chiefly be of the vegetable kind, light and sparing, that too great plenitude might be avoided---not more than six or seven hours sleep should be allowed at a time---and brisk exercise taken---in lying down, the head should be elevated, and thinly covered---the body kept always open--and all natural and habitual discharges in due order,

for fear any Inpuressions should take place -- hence cold and wer thould be avoided, and frictions every night applied to the extremities.

I'ut in weakened and relaxed habits, where the circulation is languid, the vellels fluggth, as in those flued plde rectic. (10) ifface and fotons, as preventives, are advirable --- cathertics and enecties thould be now and then administered -- brisk exercife, and dry frictions --- and courses of fleel waters ; --- and, by way of medicine, mustard, horfe-radith, (167) squiils, (176.) ammoniacal iron, (139.) myrrh, (165.) and fach like, thould be occasionally given.

It han this difease occurs from a blow, full, or some external injury, the patient falls down fuddenly, or lies as if lifelefs - and, on coming to him felf, rejects the contents of the flomachblood iffues from the note and mouth - afterwards the pulferiles,

and becomes frequent and fireng, attended with heat.

Large and rejected bleeding is inahis cafe require, and the evacuating plan, to relieve the ill cheels produced by a concuffion the brain-r-and, Mould there to any fiffure, fracture or deprellion, chicurgical affiltance is absolutely necessary.

There are two other complaints, one called carus, from the primitive Greek word kares, fignifying a prolound fleep -- and LETHARGUS, from lithe memoria abousta, a loss of memory, and argos, ignavus, a kind of pate of oblivion-each of which are but a f ecies of apoplexy; and as they require fimilar re-1. dies, eccording to the causes and conditutions they attack, Inc. acced here be fad on these complaints more than what has been advanced relative to the cure of apoplexy.

Cares is differ wifeed by the profound frep from which the patient can fearer he rowed, and in which the patient is deprived of all tenic and motion, though having eafy and free refpirecion-and the LEVANZEY, by the flight floop, from whence the patient is from awakered, a averrar quedions which he is asked, moving his pornie; but forgetting every thing, however recent; and on account or that flar gionnes, which is its conconstant, nor earing ter, or trealing his head about my thing -arrended with he extr of heat,-daw fever -- a full purie, often remitting -referention not quick-talerels and fwelling of the eye-lids-and cold fweat in the excemities.

The CALL 1881, From the Grak word has low hano, retime, from the rejention of the joinion in which the attack is made, he as to be of the same species; but as it is attended with fence this ing peculiarities, it merits oblivation.

DESCRIPTION. The patients are fullenty fored with the fit, which retreas at intervals—a toper of police or boile, or a head-ach precedes—on a finden they are deprived of all fense and motion, and containtly retain the first podure of the body and motion, whether dualing or sitting, in which they were when actuated—on the most part, after some minutes, settlom lon or, they rice as if norm a sleep, the head being relieved from its load, and in a proper situation to exercise its sunctions, thou in they are totally forge ful of the time which raid d in the sit; during with sharp not only lose all sense and notion; but whatever may be done to them thus addicted to produce sensarious is within tened; for they neither foll, hear, nor ice, though their eyes are open, and continue fixed as if upon one object; and when they recover, it is with reported sighing—this the pulle and respination appear not affected.

This complaint is of the chronic kind, returns, like an evilopty, to indically :-- functiones it is thatle - functiones combi-

ned all ho her diffafes.

CAUSES. The remote or infring are, mental affeitions—clase thinking—ta operation of fonce evacuations—we me—cold—or collection of contam nied for am widin the field.

The precimate or immediate, an irregular exceeds of percons inflaence, whereby fome of the nerves continue to act, whilst o-

thers remain in an inactive flate.

CHARACTER'S TIC SIGNS. A deprivation of all fenfation—the patients maintaining the polition of the body and parts in the fame flate as when they were falsed, which the

pulse and respiration continue as in health.

CURE. During the fit little is to be done, except to rouse the patient to a lease of feeling, by the application of the plant, volatile, and outdemalicines to the note—or trong acid spirits—rubbing the nack, spine, and back rank of the last with redillect oil of anther and spirits of wase, compliant a linkering, or esther—giving allowed dylydess, (i.e., to, 11),—and if there is reason to complice any fullaction inches the dole class may be applied to the temples, or the internal part of the nothing may be fearified.

After the fit, we mail have recourse to such things as are calculated to remove the inducing can be bence, facult it be oscillated for favior thereing or m lands by, in which the viscid name of the prior in or circulate dowly through the verfichs of the brain, we must apply to such remedies as thin the blood, derive it from the best, and are appropriated to bring on an equable circulation—be also givites and mild exchanges, we must book in proper time, advise boilt expecte, a judicious after the non numerals with light, easy digestible and final army diet,—bending the feet in warm water—secret warm battle.

and courses of mineral waters, or milk whey-with bark, seel, or such other assingents as give strength and activity to the

fystem

If from farquinary evacuations suppressed inducing a fullness of the babits, as the menses or the piles-or any neglect or omissions of accustomary evacuations, from second, iff es, blisters, &c. --we must endeavour to lessen the quantity of circulating shuids, by bleeding in the lect-or, if the apprehension of an apoplexy, should stoke us, the inside of the costrils should be traisled —and alterwards the suppressed evacuations should be attempted to be renewed.

Should worms be the cause, to vermisuges we should have recourse, of the milder fort only, as Indian pink root, cowhage, (197.) powder of tanzy, (197.) asasetida, (149.) thubarb, (173.)
--thele promise to be more effectual than the more acrid.

Should it occur from fevere cold, and any figns of life remain, the patient would be removed into a moderately warm place-gentle friction should be used, the feet bathed in warm water-and the constitution invigorated by pure wine, and warm cordials.

If from mental afficients, medicines will avail but little---the chief that can be done is, to keep the natural evacuations regular, support the strength of the system, and recommend cheerful company, travelling, and change of air.

In general, our plan of cure will confift of the most active stimulants and strengtheners—emetics and brisk cathartics—with bliftering and cupping, to which should be had occasional recourse.

§ 2. PALSY---PARALYSIS,

from the Greek paraluo, abolito, vel diffolvo, because of the debility and apparent loss of motion and sense attendant.

It is faid to be an abolition or diminution of motion or fense,

or both, in one or more parts of the body.

When one fide of the body is affected, it is called HEMIPLE-GIA, from emifus, dimidium, half, and pleffo, percutio, to strike or affect—when it anects the superior or inferior parts of the body, transvertely above or below the diaphragm, (33.)—PARAPLEGIA, from para, trans, acros, and pleffo.

When it affect: any particular paits only, as the tongue, the

lip, the eve-lid, &c. it is a local pulfy.

Now all these depend upon the same cause, only it operates upon different parts of the nervous system—for when one side is affected, a compression of one portion of the spinal marrow, (27.) called crus, is the seat—when the interior parts of the body, or

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the legs and feet only, or the belly also, and all those parts at the same time, which are fituated below the diaphragm, the superior parts remaining in a sound state; in the former, the spinal marrow about the first vertebree of the loins, (32, 46.) is shook, or ruptured beyond the middle o its substance—in the other, from the same vertebree, it is totally slaced through the whole inserior part of the spine, and altogether juiceless, so that between it and the bony cavity there appears a remarkable space—or the spinal marrow may be affected much lower down, then the disease discovers itself by inability in walking, and great weakness of the legs and feet.

When the arms and bands are affected, the cause sometimes fixes itself within the superior vertebræ of the neck and back, or passes to the nervous parts of the arms, chiesly the wrists.

And in *local pally*, the nerves themselves of the parts which supply the proper influence to them, in o der to perform their functions, are affected; or, perhaps, in slight cases, it may be owing to a defect of muscular irritability; for we know, where, from obstruction, or some other cause in the vascular part of the system, by which the parts themselves will not be properly supplied with blood, they are desective in, or lose their motion—besides, we know great cold will produce similar essects.

DESCRIPTION. Generally before a part becomes paralytic, patients perceive a palenets there—numbnefs and heavinefs of the part—and a want of activity and quicknefs of motion after this, the part or parts thus affe ted are deprived, in a greater or finaller degree, of the power of feeling, or motion, or both—they foon lofe their firmnefs, grow flaccid, and become coldgradually waiting away--or are subject to a fost patty swelling—the patter preserves no regularity--most frequently it is small, fost, and slow, sometimes quick and unequal. In the course of time, very often, nay, indeed, generally in that species where the whole side is affected, the memory fails greatly, as well as the power of reason--nay, indeed, sometimes patients are totally deprived of both.

of them, to what occasion apoplexy, such as languinay or serous fullness-suppressed evacuations, inebility, spasmodic colic, spasms of the inferior parts-a congestion of water or matter among the membranes of the brain-wounds of the spinal marrow or brain-zeroccision of external cruptions, scorbutic acrimony, the division of a nerve, sudden fright, an injudicious exhibition and use, as well as the sumes, of mercury, arienic, and lead-old age, convultive epileptic disorders-a succidens of the brain, and debility of the nervous system-or touching, it is said, the sish called

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rerfolo-or, in five, whatever can prevent the proper power of nervous influence, or destroy museular irritability—all which will produce the proximate or immediate causes, before recited, page 418, where also the classification rass are flexibled.

CURE. Whatever may be the caufe, our indications are, to endeavour to remove that which proximately, as well as more remotely, contributes to impade the dar inducate of the nervous power, by intercepting the influx of the fluid in the nervous power, by which it is had that influence is promoted; and attempt to a flore them the affected part, and the whole nervous interm, by which their flrength and activity may be recovered:

Now, as the hamilping is and paraphysis from to be fo nearly allied to apoplery, as they are occasioned by the same cautes, only differently these ed, that they require limitar remedies, we find therefore only meation them is general, and refer to the their particulars to what we have said when speaking on that subject—at least for the revent attacks of the pally—and there

mult be regulated by the nature of the conflitution.

continue copious alviae chehanges for many days, (though in oid people this must not be dime) and bathing the feet in warm water—if accompanied with internal spaints, and there should be great commetions of the blood, diaghareties of the public class, as antimonials, (180.) joined with absorbents, (191) and first or vitriolic active, (150.)—should we suspect the blood to be in too vitriol a state in these complaints succeeding an are news, my rrn, guaiscum, at feetida, ammoniacum, (16...) joined with since attalies, (189.) may be administered, and comments; and also chalvebrate waters and limitent of ammonia, or fine, would at the same time, rubbed freely down the spine, be of gent pie.

In ferous erfes, and debilitated habits, emetics form the given, from time to time, in a dilute have and taken gradually, (No. 11.) or along intuition of anti-rando or matter-level, that their effects are produced as fully as required-to I enthines, (157.) may be applied---ferons may be ent, and ithes, as near the loaner from whence the parts are affected as possible send when the paragle dia criffs from fome injury in the vertebre, and at the part there are rais a projection, a cautie applied on each fide of the vertebre, and an insue made by that means, is often a certain remedy.

In more continue trecies of these didustes, in order to make a textilion, and evacuate gradually those humants from their origin, the filmulant aperient fills, (No. 142.) and relations as

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mited with forme of the flimulant antispasmodies (149.) are re-

With respect to external applications, in order to promote function and motion, velatiles—effectial oils—balfam of Peruder functions with rough cloths, or families impregnated with the function to the purpose gures, applied to to the head, parts affected, and the spine, will be of use.

But the most espital and off recions ere the Bath waters—or, where they cannot be afforted, warm baths, furinkling, whilst in the last, usen the part affected, a foliation of vitriolated

iron. (139.)

beimulating the parts with nettles has produced good effects,

as well as electricity, particularly in lecal pullies.

The diet of the patients thus affected fisuald be of the warm aromatic kind, taking with their via ds freely of mustard, which also may be applied externally, and herfe-radish—drinking a glass of routhed wine twice a day—or a table-spoonful of whole mustard-reed may be administered in a glass of wine—ther should use brisk exercise—steep moderately—and live in a warm day air—cold must be avoided—and connubial inculgencies very rarely gratified.

When the pully is the confequence of fome other complaint believe the apoplexy, whether then rathm, gout, fearly, ferophala, colic, or the veneral dileafe, the mode of one will requite fome variation, adapted to the reculiarity of the cole.

Though these complaints frequently terminate fatally in a floot time, yet they formetimes continue for a feries of years. When the fenfe of feeling remains, there is much more probability of a certain recovery them in cases where both motion and fenfation are lost. A pally of the lower extremities and abdomen is for the most part fatal, and often attended with a mortification of the diseased parts.

Should the part, however, be painful, have perception, retain a degree of wirmth, and does not walle away or a tremor comes on, there may be some expectations of a recovery; but more particularly if a fentition of creeping or pricking be perceived—to see mes febrile affections coming on have been the means of curing the complaint—and a lowever has been of evident advantage tending to the same end,

SECTION XVII,

MADNESS-INSANIA.

THIS is divided into two species—Mania, furious madeefice, and MELANCHOLIA, glosomy madeefice. Not withstanding which division, authors have considered them only as different degrees of the same disease; which is defined an alienation of the mind, or deviation from the rules of sound reason—or a constant delirium without sever.

This doctrine has been long given us by ARETAUS and TRALLIAN. The former affects, that melancholy is the beginning and origin of mania, into which it glides more from increase that any other cause—the latter, that mania is nothing more than melanchely brought to a greater degree; as, on account of their close connection, the transition becomes extremely easy from one difease to the other. And HOFFMAN, imbiling this opinion, advances, that from attentive practice and observation, we learn, that both diseases arise from the same origin and containing cause, and vary only in degree and time of invasion, so that melancholy may be juilly received as the primary difeafe. but mania as its exacerbation and accidental effect-which connection daily and every close observation confirms; for melancholic people, particularly if the difease has been of long standing, very readily fall into mania; which eafing, melancholy returns again; although afterwards, at certain periods, they will again be revisited by mania.

they appear fad, dejected, dull, without any real cruse—they are seized with sear and trembling—encouraged with difficulty—are watchful—love solitude—prone to anger, and mutable—enquiring after the most minute trisles, covetous, but soon after simple and profuse—their habits are costive; sometimes having no stools at all; sometimes they are round and dry, surrounded with a black bilious sluid—they make small quantities of urine, and that acrid and bilious—have great slatulence at the pit of the stomach—putrid eructations, sould and offensive; and sometimes a sharp liquid with bile is rejected—the face is pallid—the pulse is small, dull, and weak—and the fick are at meals

extremely voracious.

The MANIACAL, roused to anger, are wild with rage---fome run a great way---fome bawl out violently---fome fly from the

fight of men into folitude, and only converse by themselvesfome cut and tear their timbs .- in the height of the difcale, during fleep they are diffurbed with visions, are immederately lateivious, and openly, without fear or flume, gratify their defires-but when the dil ale abates, they are quiet, flupid, and forrowful-alfo, coming to the knowledge of their malady, they are oppressed with grief at their own calamity and milery. -Their are the symptoms which denote the presence, or accilning flate of mania. The following are fuch as appear previous to the attack, at least a few of them which have been pret-

ty constantly observed.

The eyes are red and fufficied with blood-there is an irregular vibration of the eye-lids-their usual mode of conduct is altered pride manifesting itself in their countenance, voice, and gettures-they grind their teeth-conceives a hatred for this or that particular person-get little fleep -- have violent head-ceis, with quickness of hearing -- ringing of the ears, and musical founds. To this place is worthy to be referred the remarkable frength of limbs, and incredible capability of bearing cold, of which maniacal fubjects, in the increase of disease, are possessed; also in women, the collection of blood in the breaks. Rofides, people afflicted with madness are not subject to be affected by any epidemic difeate; and are often cured of other complaints under which they labour, or have their progress fufpended during their state of infanity.

The greatest part of this description, exact and elegant as it is, has been handed down from ARETHUS, and copied by most of the moderns: and in examining the whole of the fymptoms, it will flike us pretty clearly that they must flow from fome affection of those parts which are confidered as the feat of perception, fenfation, and voluntary motion; and these are the different portions of the brain. Even from HIPPOCRATES the idea may have been faid to be borcowed, "for," fays he, fpeaking of the brain, " from this part derive we wildom, and underftanding, hear, fee, and know good from bad; and also from

this are we infane."

GAUSES. Those which are confidered the remote or inducing are, mental or corporeal-the mind being too firmaly, or too long continued fixed upon one object -grief, fear, hope, joy, particularly love, totally abforbing the farollies of the mindill-founded dread of Divine vengcauce, from the falle principles of religion; the membranes of the brain indurated drynofs of the brain---or where the disease is bereditary---too secentary a life -- poitons policifed of a flup fying tower -- inmoderate

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libidinous excesses--suppression of natural or proper evacuations --- and sometimes it is the effect of preceding sebrile diseases.

The proximate or immediate of melancholic affections may be placed to the too great applause of thick blood, to the weakened and flaceid brain, and its stagnation and difficult progressibility to origin of mania, and foundation to the more violent and impetuous motion of the thick and melancholic blood through the vessels and sibilities of the brain, or parts of the brain; whence arises, on the one hand, too weak influence, on the o-

ther, too ftrong, of the nervous energy.

CHARACTERISTIC SIGNS. MELANCHOLY, or GLOOMITY MADNESS, is faid to be a partial infanity without indirection; or a difficulty of digestion being a concominant fymptom; for we say people are infane, when the relations of things altogether salie are conceived in the mind, so that either the passions or actions of mankind may be exerted irrationally, or not within the limits of reason---and it is called partial, because melancholic people will do many things, and think on many points, not with proper or well-regulated judgment; yet in some they act and think with some degree of sound reason-

MANIA, or FURIOUS MADNESS, is univerful infanity, where the whole ideas are for generally deranged, that no act, or thought, is conducted within the bounds of cool and deliberate

reason.

CURE. All species and degrees of madness which are hereditary, or which grow up with people from their early youth, are incurable; and so, for the most part, are all maniacal cases that are above a year's standing, eriginate they from

whatever fource they may.

Very often the remains, or dregs of some particular dift ase, as intermittents, small-pox, nervous sever, give rise to different degrees of socialiness, or madnels, termed amentia—the cure in this case must be attempted by nourishing diet, clear air, moderate exercise, and the use of wine; not by evacuations, which in almost all other cases of infanity are generally thought necessary, unless the constitution of the patient be such as absolutely to sorbid them.

And here we must enquire what kinds the patient can bear beil; and these should be proportioned to his strength; else, from being vielent, though they may, perhaps, cure furious madnets, they will be apt to bring on incurable dejection of mind, and melancholy.

If patients, therefore, are of a ftrong habit of body, full, and fynctions of mania from melancholy make their appearance; or, in the earlier flages of melancholy, the vessels shew signs of

plenitude, bleeding may be had recourse to, either in the arm, jugular vein, and sometimes by cupping, if any affection of the head requires it; or, should the patient's weakards forbid the taking away much blood, leeches may be applied to the temples.

In recent cases though this is generally attended with most fuecess; but if of some continuance, limiter advantages have not

been derived from it.

In melancholy, however, bleeding must be sparingly used—in mania more freely—and some consider opening a vein in the arm sufficient-bleeding the patient in an erect posture till near fainting—which proves some diminution of the suilness of the vessels of the brain taking place.

Vomiting, in weakly people, with ipecacuanha, (168.)—in the more robust, with antimonial wine, or tartarized antimony has been thought preferable, (168.)—in mania it may be a doubtful remady, by determining too freely to the head, in melancholy it

may be more freely used.

Purging is extremely useful—the most efficacious catharties have by some been thought insusion of senna, (No. 100.) quick—ened with one or two drams of the tincture of jalap, instead of tincture of aloes, and senna—but the frequent use of cooling purges have, from experience been recommended. (No. 147, 148.)

But should there be an obstruction of the menses in women, or the piles in men, a reproduction of these evacuations are thought necessary—the aloetic purges, (173.) (No. 106. 108.) then will be the most proper—and these evacuations by vomit

and flool require to be alternately repeated.

Diuretics have been confidered by some of the greatest moment, especially if any degree of sever should accompany insanity—but this will happen more in maniacal cases; for melancholic subjects, for the most part, make too much water—the most proper diuretics are, the vegetable alkali prepared, (191.) and the diuretic salt, (176.) and these may be given in large doses alternately, two or three times a day.

Besides these, discharges by the pores of the skin are to be

promoted.

HOFFMAN particularly recommends the warm bath, who has feeu numerous inflances of melancholic and maniacal cases cured by this means. Dr. Cullen is of a contrary opinion, and has found it rather hurtful to maniacs—though to rigid melancholic habits it may be useful, or exhibited in form of a partial half bath, pouring at the same time cold water upon the head and superior parts of the body.

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From complex having been faid to prove faccelsful in forming radical curry, Let Let the gave it in large doles, but withone fuesely though he board comphor diffolied in vinegar had good chieft - he show he we a the officest might depend upon the vinesar-he gave our cames and a half of diffilled vinegar every day, after having for prepared the patient by bleeding and pursing, which he fonetimes occasionally repeated-eight by this method, and nous of their took more than from fix weeks to three manches, had the cure completed. He recites the following of de, four adve they began the use of vinegar_their eyes of their with Jaring lack, and prefently after became calm and quiet, it alted it if I to fivesting; and the more they finest, the fronce they were cared -- the monfirmal difebarge in fuch as were chiliudied, or had too little of this falutary evacuation, was from ted or increased. From this account, and from the finablicity of the medicine, it ought certainly to undergo farther

Historing the head has been thought useful—and, perhaps, it may, says Dr. Mead, in cases of long standing; but, in preference, he reso minerals shaving the head after the manner of the ancients, and rubbing it often with warm vinegar; and alto pass g a section in the nape of the neck. Dr. Cullen is of a contrary opinion, for he says, "in recent cases, blittering the head has been found useful in inducing sleep; and when it has this cheek, the repetition is proper—lut in maniacal cases that have lasted for some time, blittering has not appeared to be of any service?—and in such cases he has not found perpetual blisters, or any other form of issue, prove successful.

However, fetons and iffues I confider in all cases of mapia extremely serviceable, by preventing a fullness coming on the habit, from the constant drain, and this in an easy and gradual manner.

A frequent up of the cold bath in cases of mania is very serviceable; for CELSUS says, nothing is so beneficial to the head as cold water. In order, though, to render this remedy the most essential, the naniac should be plunged into the cold bath by surprise, and detained in it to some length of time, irequently pouring cold water upon the head; so, with the assistance of fear, a cooling effect may be brought on --this has often been useful; as has also the application of ice, snow, or the clay-cup to the naked head.

To procure reft, Dr. Monro used to give two drams of boran, camptor, musk, and other medicines of that class, have been preferred to opium, in order to procure sleep; for in maniacal cases opium is usually sorbidden-but there are instances, where, in large dofes, it has preved a cure-and, perhaps, if it were tried oftener, more powerful effects may be derived from it-and after large evacuations and proper bleeding, and where there was no appearance of informmatory affections of the brain attending mania, and the patients were refiles, I foodly not helitate in having recourse to it, for two or three times; which, should it be found to exapperate the disease, might be casely left off-if otherwise, the effect would authorize the pursuit.

Conftant and hard labour has been recommended; because it is faid, forced attention is a very certain means of diverting the mind from pursuing any train of thought; and from hence its utility--alio a journey curried on for any length of time; during which, complete cures of mania have been known to be effected. from diverting the attention from diagreeable and painful af-

fections.

There are the remedies which are generally applied in cases of mania, or in such cases of melancholy as seem to be approaching to that state-but there are some deviations necessary to be observed where infanity is in its primary state, without such apparent tendency.

la both cases, however, cossiveness ought to be avoided by the use of gentle aperients, particularly in melancholy, the draf-

tic purges are better omitted.

Blood-letting will here be feldom necessary, except under the

particular circamitances before specified. (p. 434.)

Warm bathing is also preferable to cold bathing; because we consider here the nervous system in too torpid a state, and requires the sluids to be solicited externally, and not thrown too much internally, less want of proper incitability of the nerves should permit the internal parts to be too much loaded, from the vessels being incapable of producing re-action adequate to the external force.

Nor thould opium in cases purely melanchalic be had recourse to; for the action of its sedative power would contribute to add

much to the nervous torpor.

The diet in maniacal cales ought to be perfectly light and thin, and fuch as is neither dimulating nor neurifing—hence vegetable diet is the most proper—but should in melancholic cases be used with caution, as, where the stomach is torpid, such viands are apt to ceed from symptoms arising from indigession.

As nothing is more conducive to the recovery of patients labouring under infanity than proper management, to this point much attention ought to be paid; and in the two flater of the

discasse different modes ought to be adopted.

The violence of the mania is to be refrained, and the def-

pondency of the melancholic to be diffipated---the former we are to keep in subjection by chiding and threatening---and it must be remembered, that mad people are always cowardly, and can be awed by the loc of a very expressive countenance--and when those who have the charge of them once can impress them with the notion of fear, they will readily submit to any thing required--and this is much better, and infinitely more humane than beating them, or chaining them down in dark cells or rooms, as was formerly the custom when they were outrageous---the strait waistcoat, or tying their legs down to the foot of the bed, if the former succeeds not, will be sufficient for preventing them from injuring themselves or others.

The latter should be encounted and soothed, and diverted by concerts of music, or any other pleasing entertainment, in which they have been known to take delight whilst in their rational state.

A mistaken humanity often prevents the friends of unfortunate infane people from putting them under the care of strangers, and sending them from home—this, however ought to be complied with, for, whilst at home, and amongst their friends, the cause and continuance of unpleasing ideas are apt to be too frequently renewed, and subjection is infinitely more difficult to be acquired; still, the prevention of the one, and the attainment of the other, are essentially necessary.

In these cases the head is apt to be affected with fullness; therefore, where circumstances will permit, the patients ought to be kept as much in an erect posture as possible—indeed, should there be no perceptible symptoms which indicate such a preternatural sullness, or an increased force of the blood-vessels in the brain; for an horizontal position always augments the fullness and tension of these vessels, and therefore may increase the too-powerful action of the brain.

To prevent a relapfe, wich is very apt to recur, the plan of medicine and diet here laid down ought to be repeated for a confiderable time, at proper intervals, after the patient has recovered—and chalybeate waters and the cold bath will also be highly proper, to strengthen the whole frame, and prevent a return of this unhappy disease—from which to relieve our patients must afford fatistaction inexpressible.

S E C T I O N XVIII,

AFFECTIONS OF THE LUNGS.

§ 1. Common cound, or Tussis.

THIS complaint is so common, and so often experienced by almost every individual, that a minute description seems unnecessary; but as from neglect it may be, and is frequently, attended with disagreeable consequences, it will be useful to see how these originate, in order to shew the necessary of attending to this complaint, though apparently trivial, and taking it off by the readicit and easiest means, in order to prevent subsequent mischies;—to this, which is occasioned by what is called catching of cold, and the hooping, or convulsive cough, we shall confine ourselves.

And of the first we say, a cough is a concussion of the lungs repeated at uncertain periods, induced by some irritating cause acting on their internal surface, or that of the windpipe, (29.) occasioning quick reiterated action of the muscles of the ribs, diaphragm, (3%) and belly; and this irritating cause by some means obstructs perspiration, and determines the matter, which should pass off by the perspirable pores, too freely to that organ, or part leading to it—and chiefly, as it is termed, from catching cold, for the most part attended with hoarseness, running of the nose, sneeding, chillness, and sometimes with slight degrees of sebrile associates. People thus a sected generally cough up mucus from the lungs, now and then of a yellowish colour, and viseid; which, when expectorated, puts a period to the fit of coughing for that time.

From what has been fail, the indications of cure will be ob-

vious.

To remove the irritating cause, and guard the lungs, so that, till it is removed, they shall not feel too sensibly the effects of that slimulus—and these are performed by restoring perspiration—evacuating the mortial mucus, sheathing its acrimony, rendering the lungs insensible to its effects—and giving proper strength to the vessels of the lungs; for, by the repeated shocks and distension, they become debilitated.

And these will be accomplished, for the most part, by very easy means—by avoiding cold—keeping the breast warm, by

wearing flannel over it, drinking warm liquids in the morning, and at meals warm water, or inhaling the vapour—taking the compound decocion of barley, linfeed, or bran-tea, with honey and nitre—or drinking at night barley-water, fweetened and warm, in which is diffolyed the yolk of an egg, or taking any gentle diaphoretics, (178-) or finall dofes of antimonial powder, (180.)—these, or some of these, early applied, will readily prove effectual.

But should the complaint be obstinate and violent, bleeding may be necessary, and a spare dict—saline, and antimonial medicines may be given, (No. 6 to 9.) to which may be added camphorated tincture of opium, (152.) or nitrous medicines, (No. 2.) may be joined with antimonials, and some of the liquids before spoken of adhered to—the body should also be kept open, and the urinary discharge promoted, by gentle appearents and directics—linctusics and emulsions, (No. 81 to 84.) may also be occasionally administered; and are very useful, if swallowed gradually, particularly should there be a tickling upon the top of the windpipe, which sometimes appears to be the principal cause of a cough, especially in the beginning.

At the latter end of the complaint, if the cough thould continue, though not violent, but come on now and then, and there should be expectorated tough, vifeid mucus, the ammoniacal mixture, (No. 141, 142.) given three or four times a day, I have found serviceable, not only in promoting an easy expectoration, but strengthening the vessels of the lungs—and where I find people subject to frequent returns, after the cure, benefit may be derived in the prevention, by bark given twice a day

for a little time.

During the feverity of the complaint the patient should be advised to keep much within doors, avoid the night air, be rather warmly clothed—particularly keep the seet warm—and by these means success is certain.

But should the complaint be long neglected, from the repeated stresses laid upon the lungs by continually coughing, hard glandular tumors, called tubercles, are not rarely formed—fometimes the vesses of the lungs are ruptured, by the blood being so often too society thrown into them—in both of which consumptions have been the consequenc.—the cough then begins to put on another aspect, and induce a directle of a very serious nature; for the relief of which the reader is referred to Pulmonary Consumption. (331.)

\$ 2. Hooping, or convulsive cough.

It is fo called from the violence of the concuffiens, and that

gruticular noise of hooping which is observable in the fits of roughing-the corneough, from the Datch word kincken, to pant -- in medical language TUSSIS CONVULSIVA, or PERTUSSIS.

DESCRIPTION. In the beginning chiefly there is a dry rough, in which there is not thrown up any, or a very small quantity of thin ferum, more or less acrid -femerimes the cough is moul, and then a blackith or bine mucus, often extremely tenacious, is evacuated --- at the iame time, the extremities grow cold---the bowels are coffive---the urine is thin---and the blood is forced up copionly, and with great force, into the superior parts, breaft and head; from whence, during the fit, the face grows turgid with blood --- the veins (well --- the arteries bear flronger and quicker----the eyes appear prominent---the tears flow -- the eye-lids puff up -- and fometimes the blood, particularly if a fneezing comes on, is forced out from the noffrils--fometimes the veilels of the lungs are ruptured, and there ariles a spitting of blood --- a hiccough often accompanies it, and very often vomiting.-With respect to the convulive affection, is does not appear generally till the fecond or third week from the attack; 'till that time, it appears like a common cough, and then it comes on at different times of the day, and continues till fome mucus is thrown up by the lungs, or the contents of the stomach evacuated, and then it ceases—when it has put on these appearances, its time of continuance is uncertain; it may go off in a few weeks, or remain fome months --- Before the fits come on there is some warning given, chiefly an uncafy fensation in breathing, and children will at this time catch hold of any thing that is near them, in order to Support themfuves during the fit of coughing, which they dread.

But there are some cases where this arises from a peculiar infection, that appears only like a common catarris--ilill it is most commenly, indeed, almost always, with a peculiar kind of found, different in different cases, during some parts of the coughing called booping, occasioned by many expirations being convultively made, rapidly fucceeding each other, whence a great quantity of air must be thrown out of the lungs; which circumitance necessarily requires a full inspiration to se ceed--in this act the air rushes with unufual rapidity through the inperior part of the windpipe, and occasions that particular noile, which forms the flriking and characteristic marks of the

Various have been the opinions of authors refredling the feat of this dileafe --- but if to what we have faid, the occasional or accidental causes, which are apt to bring on the fit, be added, 14 h as violent exercise -- full meals -- food difficult of digetion 2 K —irritation of the lungs from fmoke, duft, or disagreeable odours---strong passion---or other confiderable emotions of the mind---the relief occasioned by vomiting or expectoration of muons freely, and the propensity to coughing being less when the stomach is empty---we shall not hesitate in concluding the lungs or the windpipe are the parts of the constitution affected; and that predisposition in the parts to feel the effects of peculiar infection form the immediate causes of the disease, and also authorise us to say,

That the HOOPING-GOUGH is a reiterated and violent concuffion of the pulmonary organs, induced by the convultive action of the muscles of ribs, diaphragm, and belly, brought on by the stimulus of peculiar infection acting upon the lungs or windpipe, attended with a fense of strangulation, repeated sonorous inspiration, and often with vomiting and expectoration.

CURE. The indications of which are, to correct or evacuate the peculiar infectious matter -- to alleviate and leften the violence and duration of the cough—and prevent those mischiefs which are likely to arise in the habit, or parts of it, from its excess.

But as we know of no means either to correct or clear the conflitution of the morbid matter creating the disease, on these we can make no attempt—we must therefore imitate nature in her efforts, by such means as experience, sounded on the know-ledge of the laws of the animal accommy, will point out to us, in accomplishing the two succeeding indications.

In full habits, therefore, if the face fwells much in coughing, looks red, and alto the eyes, and other appearances of local plenitude show themselves, bleeding is estentially useful; and this test be repeated so long as such appearances render it nemessary—but this must not be pushed too far; for then we should increase the convulsive affection—hence, in the slighter kinds of the discase it may be omitted—the body should be kept moderately open, not less than two or three sloots procured every day—violent purging, for the reason above recited, might be hurtful.

Gentle vomiting every day is beneficial in the forenoon, by small doses of antimonials, one or two spoonfuls of the emetic mixture, (No. 11.) for a dose, or as much as will produce the effect—and should any severish symptoms attend, a quarter or half a grain of tartarized antimony may be given at night with the powder, (No. 2.) lessening or increasing the dose according to the constitution; for this mode not only does good by the shock it gives to the habit, assisting expectoration, and clearing the stomach, but by determining the sluids to the surface, promoting perspiration, and keeping the body open; which last if it does not do, a little magnetia, or some other cooling purga-

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tive must be added—by persisting in this mode, till evident symptoms of amendment presented themselves, then omitting the vomit to every second or third day, afterwards giving it once or twice a week, has been crowned with defired success.

But, notwithstanding, should symptoms appear indicative of an inslammatory tendency on the lungs, which will be shown by disticulty of breatning, fever, and quick pulse, where no coughing for some time has preceded, blisters then should be applied,

particularly on the cheft.

Rubbing the pit of the stomach, and down the spine, with squal parts of rectified oil of amber and spirits of wine, where there has been no inflammatory symptoms, or febrile tendency; or after these had gone off, has been considered of great use; but bleeding and purgatives, when necessary, have preceded their use.

Small doses of hemlock, (152.) have been given with apparent success; and is by much the best amongst that class stiled specifics.

Towards the close, where mucus appears viscid and difficult to expectorate, the ammoniacal mixture, (No. 141. 143.) is not

an unprofitable medicine.

The stimulating tonic mixture, (No. 144.) has been spoken of with exaggerated praise, but I think too indiscriminately—early in the disease I would never recommend it, particularly in full habits with an inflammatory tendency—though in the latter stages, where evacuants have preceded, I have given it with apparent advantage—and, perhaps, in weak, delicate constitutions, it may be exhibited at an earlier period in small doses two or three times a day, till a slight strangury is excited—the dose may either be diminished, or given at longer intervals.

However, in the general mode of manangement, I should, in the beginning, recommend vomiting and aperients, with bleeding, blistering, and use of antimonials, if necessary—small doses of cicuta—and where no sebrile symptoms declared themfelves, external antispasmodics.

When the symptoms had considerably abated, tonics, particu-

larly bark, should supply their place.

And, in the first period, the diet should be abstemious and sparing, as in inflammatory sever, if the symptoms ran high.—In the second, the mode of living should be more generous—and should the lungs be weakened by the violence of the disease, a course of als, milk, riding exercise, pure, clear air, and the use of bark, would be proper.—Indeed, in some cases,

3 K 2 change

change of air is highly necessary, and very often alone produce;

the most falutary confequences.

We mull observe here, that often, when the coughing fit is over, the patients are almost always perfectly relieved; but should they not, and the difficulty of breathing should continue, and there be any confiderable febrile affections, there is danger, which must ever be suspected; for tew die but under thele circumflances --- now and then bringing on immediate suffocation. and fometimes confumption --- and often attended with extremely troublesome and painful affections; but it will sometimes occur in fo mild a state, that all lear is unnecessary --- and this will manifest itself by the ventleness of the symptoms; for though the complaint thould be completely exitting, accompanied with its certain lymptoms of convultive cough and Incoping, if these should be moderate, and their returns observe diffant periods -- I the ejection of mucus from the lungs should be in no great degree --- the difficulty of breathing and tebrile affections do not manifest themselves -- and between the fits the patient preferves his common habits of health, and the fymptoms gradually decreate, nature will be her own phylician--in these cases little is necessary to be done.

6 3. ASTHMA.

from the Greek word as vel acmai, anhelo, to breathe with difficulty. Though authors have divided this diteate into different species they may all properly come under one head, confidering them, as they truly are, the same, only differently circumstanced; or arising from other diteases in the habit, and merely symptomatic; we shall therefore consider them under one head, as assume in its different states, whether periodical, continual, or acute.—If the difficulty of breathing returns periodically, it is termed ASTIMA—if it is chronic or continual, DYSPNEA, from the Greek word dys, difficulter, and proof, spiro, to breathe—if it is acute and violent, comes on suddenly, and foon terminates, and returns not again, ORTHOPNEA, from orthos, ressue, upright, and proof, spiro, because the patients can only breathe in an erest posture.

DESCRIPTION. Before the difficulty of breathing comes on, patients complain of a tightness in the agion of the flourach, which is differeded, and wind passes in contact the quantity upwards—they then begin to be hot—are beauty and difficulty of pale urine, their spirits become depacted, the hours and a degree of inadivity and stranges—the breast is poored at commonly load—

ed-they grow hoarfe, are fick, breathe with great difficultyand experience almost universally a kind of stupor, from the contracted thate of the cheft, inforcation and expiration are performed flowly-and, indeed, to uneafy are they in the execution, that they elevate their shoulders, and extend their necks, in order to get relief in their manner of breathing-very frequently they vomit materials of differenc kinds - fometimes viscid flimy mucus, fornetimes green or vellow bile-in the violence of the fit, they have a palpitation of the heart, a livid colour of the face, and feel as if they should be insfocated-when the spasmodie contriction remits, they fait up viicid phlegm, which taftes differently, intermixed with which are black coloured ftreaks -the urme now changes its colour to a deeper hue, and deposits a fediment-all the Tymptoms increase at night, and are worse in bed -patients feel most alleviation in the open air-as foon, however, as the paroxylin goes totally off, the expectoration ceases.

From this account, though coucife, it appears, that whatever will impede the pallage of the air into, or the free circulation of blood through the lungs, either by affecting the lungs themselves, or diminishing the capacity of the cheft, will produce this complaint-hence the remote or inducing CAUSES are, thick, denle, fo gy air or air impregnated with noxious particles or vapours received into the lungs-the aperture of the glottis, (the narrow flit at the upper part of the windpipe,) being so contracted, or closed up, and the passages leading to it from the parts about the fauces being much swelled, and the investing membranes covered over with a mucous or purulent exudation; or themselves greatly thickened; or the aperture may be thut by the mufcles of the windpipe being affected with spasmodic contractions, which is not feldom the cafe—accumulations of watery, purulent fluid collected in the cellular fubstance-earthy concretions, or schirrous tubercles tormed in the lymphatic glands dispersed through them-tumours lying contiguous to, or adjoining the lung,—extraordinary quantities of fat collected in the cheft, particularly about the large blood veffels-too copious fecretion, or a deficiency of the mucous which lubricates the branches of the windpipe-blood illuing from the extremities of the arteries into the air vetiels -- by an over diffension of the blood-vessels in the lung :- spalmedic affections or pain affecting the the muscles defined for respiration, especially the diaphragm, (33)fpalmodic contractions of the branches of the windpipe from internal cantes-out eliens of water, blood, and matter within the cavity of the chart, fivellings of the belly from dropfical collections, enlarged vilcera, or from a focus-and, indeed, from an unnatural tamili-or med cheft-throng passions, old ulcers healed,

any accustomary or critical evacuation thrown back into the habit --- wounds of the diaphragm, with a variety of others --- and according to the nature of the acting causes, so shall we find the nature of the disease-but as in a work of this kind we cannot go into the minute particulars, we shall confine ourselves to two; of one or other of which almost all asthmatic complaints consist, viz. the bumid and spasmodic; or convulsive.

CHARACTERISTIC SIGNS. A difficulty of breathing, with straightness of the chest--- sometimes continual, at others periodic --- and fometimes acute, violent, and not subject to re-

turn.

DISTINCTIONS. Such as are affected with the humid, or moist asthma, are seldom free from cough, and, before the accession of the fit, they have some signs indicating its approach, as languor--loss of appetite, oppression, a flatulent fullness of the stomach---after these there comes on a violent difficulty of breathing---there is no certainty of the duration of the fit, as it is from a few hours to three, four, or more days -- still the fense of suffocation and difficulty of breathing is so distressing, that the patients are scarce able to lie, speak, or expectorate---yet an inflammation of the lungs feldom succeeds the fit, notwithstanding there appears fuch violence affecting that organ--as it terminates, the breathing begins to be more free---mucus is expectorated---the urine changes to a darker colour, and deposits a copious sediment.

From the humid althma, the dry or convultive is distinguished, from the suddenness of the attack--a pain and cramp affectfing some part of the breast, particularly if any part of the breast has been injured formerly by a wound or blow---from the violence of the symptoms --- but the most certain sign is said to be, if a convultion of any other part be prefent, or has preceded.

Indeed, both these species may be considered, and not improperly, of the nervous class; one having affectated with it an accumulation of viscid phlegm in the lungs, the other free from

fuch a congestion.

CURE. In full strong habits, in fits of the asthma, bleeding may be had recourse to; and, if the constitution will bear it, and the continuance of the violence of fymptoms require it, it may be repeated --- but in those which are delicate and debilitated, or far advanced in life, it is more judicious to omit it --- as foon as poslible afterwards, the glyster, (No. 26.) in which from a half to a whole dram of afafætida, or more, may be diffolved, should be administered --- and if these do not in a short time prove efficacious, a blifter should be applied between the shoulders.

Vomits should be administered, (No. 11, 12, 38,) either will

answer the purpose; but not till expectoration comes on with some degree of freedom; for, in the height of the sit, they might produce mischief, by creating too great an accumulation of blood in the head, and occasion not only dangerous, but fatal symptoms...indeed, if the stomach is loaded with any kind of soulaness, vomiting will often prevent the assumptions.

A strong infusion of roasted coffee has been known to allevi-

ate the fit.

In order to promote expectoration, emetics should from time to time be given, and compositions formed of the attenuating

gums, (No. 141. 143. 145.)

Garlie is useful, (165) or extract of tobacco, (153.) is supposed to be capable of being so managed as to exceed all the rest of our medicines for this purpose: for tobacco chewed by those unused to it till it has brought on sickness, and then going to bed to sweat; afterwards repeating it, has, we are told, cured the fit.

Squills, (176.) mixed with other expectorants, (164, 165.) increase their power, or are themselves active; and also soap mix-

ed with the gums before mentioned.

And in all cases where the body is costive it should be kept gently open; for which purpose the pills, (No. 108, 109.) may be used.

If opiates dare be administered in the humid assume, they should always be coupled with expectorants and volatiles—to which end, drops of opiated tincture and salt of hartshorn may be added to the focial attenuant mixture, (No. 145.) for these may prevent the opiates from making the mucus too viscid, or hindering expectoration from going on.

Diuretics are also beneficial, particularly in those who have

an acrimonious state of fluids.

Though very great caution is necessary in the humid assumation our exhibition of opium, yet in the spasmodic species it may be given with more freedom; though it should be joined with

fuch aperients as will keep the body open.

Cold bathing in an artificial falt bath, or in the fea, which is the most eligible and certain, has proved efficacious in those asthmas where, from the predisposition in the lungs to become irricable from slight causes, this complaint was brought on, except some peculiar circumstances forbid the use, as tubercles, dropsy of the chest, usees in the lungs, &c. &c.

Some have been faid to die suddenly from suffication in this disease; but this has generally been sound to be from polypus in the lungs--partial pally, or some species of dropsy, has been

its termination, and a second results of topodraness

Iffines in both species are recommended in the infide of the things just above the knee.

Light diet, early digestible, and not statulent, is the most proper, and riding on horseback ought not to be dispensed with,

becanfe it is always extremely beneficial.

With respect to fituation, the patients ought to be lest to themfelves, and fix in that in which they are most lively and comfortable, and wherein they can breathe with the greatest freedom; for I have known the air of London more falutary to some than the purest in the country.

Those of sanguine habits, with straight chests, who have been subject to frequent coughs, are most hable, in the latter part of life, to fall into althinatic complaints, particularly if they are gross and fat--and it rages more in summer and autumn, than

in the winter.

We shall find, by the enumeration of the remote causes, this complaint may be the confequence of others, and is infelf, therefore, purely symptomatic—to the original disorder we are to advert, at the same time that we use modes proper for the alleviation of this distressing symptom.

§ 4. SUFFOCATING CATARRH—CATARRHUS SUFFOG ATIVUS.

We must be careful not to confound this with the TRACHEAL OFIRSY, or CROUP, (p. 317, 220,) because feme authors have given the same name to this: not withstanding, we shall find them widely different, and that they require different modes of thre—that being an inflammatory affection of the branches of the windpipe, requires bleeding, which might be highly ferviceable—this being trasmodic, bleeding would be as injurious.

DESCRIPTION. In this complaint there is a peculiar kind of theill croaking, accompanied with a quick and deficult breathing, attacking violently and factionly, and generally in the night—from the fine ular noise, we may easily desinguish it from inflammatory affections of the lungs, which never attends them.

and always makes its approach more gradually.

CHARACTERISTIC SIGNS. A further arising from a flating-dic construction of the lungs, or rather windoing, or a

fpatia of the displiration, without byfleric affections.

CURI. We muit here endescour to take of the spalmolk afficiers as soon as possible, by blinding the back, and the copious wie of ala feetida, giving glysters of a solution of this rum, and pouring the same down the threat; and if the fit aboves, or is conquered by these means, back much be given freely, to prevent a return.

To

To a child eighteen months old, some have given an ounce of ala særida in solution, and injected as much by glysters, in the space of forty eight-hours.—In so short a time it will probably be very distinct to get a child so young to swallow so large a quantity.

However, in smaller doles it has been equally efficacious—alternate doles of musk and ala sætida will answer the purpose,

in conjunction with the glyfter-

This difease is often met with in children, and is in some seafons epidemical—but it very frequently proves so suddenly mortal, that medical assistance is of small consequence.

§ 5. Spurious Perigneumony—Perigneumonia notha.

from the Greek word nothos, spurius.

There have been different opinions concerning the leat of this complaint, though all agree respecting the affection of the lungs, yet differ with respect to the part—some affect that it is the small branches of the pulmonary arteries, and those of the wind-pipe—others, that it is in the cellular substance of that organ, that is, the membrane which connects together all the parts of which the lungs are formed, and is the same connecting medium which unites the smalless fibres of the body with each other-See Lungs and Cellular Membrane.

I contels myfelf of the latter opinion; for, though expectoration has been carried on freely in this complaint, the patients notwithstanding have died, which is not the case in humoral asthma, or the instantance periphetumony, where the air vessels, or the small branches of the pulmonary artery, have been assedded, for, under these circumstances, the lungs have an opportunity of freeing themselves from the oppressive load, by the free communication those parts have with the windpipe—whilst, on the other hand, in order to form a cure, the offending matter must be thinned sufficiently to be re-absorbed by the lymphatics, and carried back into the course of circulation. We have thought it necessary to premise thus much, in order to furnish a periodic idea of the complaint, which, we think, will farther be corroborated by the symptoms and consequences.

DESCRIPTION. In this complaint, though there are chillness and heat alternating with each other, yet neither is the heat, pain, or thirst, in any great degree—the pulle is frequent, weak, and small—it is often attended with, or there is a strong propenfity to, vomiting—giddiness or pain assets the head—the patients cough, and experience a loose of weight in the breast, with a dissinity of breathing, and eightness within the chest—and,

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for the most part, the urine is of a pale colour—in some cases they expecterate telerably freely; but even then the difficulty of breathing abates not, but they still wheeze and seel themselves oppressed; and, when that is the case, we must be very careful not to pregnosticate too favourably; for the satal cause still exists, and most commonly terminates in death-

CAUSES. An accumulation of ferum in the cellular fubflance of the langs—hence arises great oppression on the air vessels, and some slight obstruction on the pulmonary and bronchial arteries, thereby hindering a full and free circulation of the blood through the substance of the lungs—to which old people, those who are phlogmatic, weak, relaxed, and fat, are most subject—and these it attacks most frequently in moist, foggy, and rainy seasons.

CURE. The indications are, to dislodge the contaminated forum, and throw it out of the conflictation, by making it sufficiently thin, so that it may be absorbed from the cells where it is lodged—and this we must attempt by emetics and stimulants; for on these we can alone depends or faving the life of the patient.

The antimonial emetics are the most proper, (No. 11, 12.) given in fuch a manner that the shock and agitation may be most powerful-hence administered on the stomach being empty, or nearly fo-the arms, back, fides, and legs should be fomented, and blifters applied to them-mustard whey, (No. 127.) decoction of fencka root, (179.) have been thought useful-when the cough has been violent, gentle opiates, joined with aloetics, have been admitted-volatile faline mixture, (No. 126) coupled with naufeating dofes of antimonials, in order to promote expectoration, have been advifed, and may, perhaps, be ufeful to remove obstructions formed in the small branches of the blood-vessels of the lungs, occasioned by the external pressure of ferum collected in the cellular fubflance; but they touch not the grand cause; for though these, or the application of some of the attenuating medicines, fuch as camphor, vinegar of fquills, gum ammoniac, may cause expectoration; in spite of all our endeavours, we very often, indeed, most commonly, fee death ushered in, by a perpetual laborious wheezing-great restlessacs and anxiety, intolecable oppression at the pit of the stomach-a constant drowly disposition -- coldness of the hands and feet, and a livid colour of them as well as the face, owing to the blood there flagnating.

In phiegmatic and relaxed habits, issues on the inside of the thigh above the knee may ast as a preventive, by hindering a serous accumulation taking place in the cellular substance of the lungs, by associated a continual drain to the constitution; but in the fit of the disease, though advised by some, can abord no re-

lief,

lief, from the flowness of their action. The body should always be kept open by glysters, whatever mode we pursue; and we may venture to affert, that if emetics, blisters, and the use of volatiles, will not afford relief, medicine cannot be of much fervice.

We must be very careful in distinguishing this from the true peripueumony, which may be readily done by remembering, notwithstanding there may be some similar appearances, that in the spurious peripueumony there is no acute sever—add also from the dry ASTHMA, because that is never attended with any sever; in this a slight sever manifestly shews itself, though far more obscure than in the instammatory peripueumony.

We should have observed, that in all diseases where a cough appears to be a prevailing symptom, mucilaginous and oily compositions are freely exhibited—here though they must be avoided, as must also opiates, except under circumstances which we

have before specified.

SECTION XIX,

WE now come to speak of those diseases wherein the humours of the machine are particularly concerned, owing to some error in point of quantity, or quality, or both, wherein they deviate from their natural state, and from thence produce a variety of diseases—the first of which we shall specify is

I. JAUNDICE;

from the French word jaune, yellow—it is also called ICTERUS, from the Greek ikteros, aurugo vel aurigo, which name it bears, from the appearance of yellowness like gold—MORBUS REGIUS—MORBUS ARQUATUS—SUFFUSIO BILIS, from bile being sustained over the habit—this, therefore, is considered as a distase produced by the bile either obstructing the common dust of the gall bladder, called dustus communis choledochus. (30) by its viscidity, or concreting into a hard substance, named gast stones—though it may be produced by other diseases, as we shall see in the enumeration of its remote causes.

But we here mean only to speak of it as originating from the causes above specified, the rest being properly considered only as symptomatic, and must have applications accordingly.

3 L 2 DESCRIP

DESCRIPTION. At the commencement the patients gene. rally appear languid and indolent, with an uneasy sensation of tightness and oppressive weight at the pit of the stomach-after this there comes on a flight yellowness at the angles of the eyes, which disperses it eli over the white, the skin at the same time putting on a fimilar appearance—there is very often a pain of the flomach—the body becomes costive—the appetite fails-the excrements appear of a clay or ash colour-and the mine yellow, tinging any white linen immerfed in it of the fame colour, and depoliting a copious yellow coloured fediment -there is generally a weight, fullness, and firetching of the right fide under the spurious ribs-there is also a general naufea and loathing of food, sometimes attended with vomiting --the Ikin often itches --- the nulle is formerimes quick --- formetimes there is a hiccough-and, should a loofeness come on, with yellow coloured faces, the discase terminates. These are the common fymptoms, and this the common course of the curable jaundice, which will go off in a few days, if it has originated only from a confliction of the duodenum, or the common gall duct-nor will it continue much longer if viscid bile has only been the obstructing cause-but if biliary concretions have been the fource, in a few weeks, or months, most probably the same fymptoms will make their appearance in the same succession: and, at length, the discase will, from a repetition become perpetual-fometimes better and worfe, though lefs fevere than at

Under these circumstances, the yellow colour becomes deeper in a great degree, forming what is called the black jaundice—so much does the bile diffuse itself through every part of the habit, that it has been afferted, objects appear to such patients of a yellow colour; and even the taliva acquires a bitter taste—however, in these cases, the blood seems to be so surcharged with bile, that its texture is broken down—frequent hamorrhages appear, particularly of the note; and the blood transfuding also through the sides of the vessels is deposited in the cellular connecting membrane, occasioning a general livid east—the sluids then running into a thin acrimonious state, occasions great itching—the body becomes drophcal—the belly fills with water; and thus is the miterable scene closed.

ed meconium, being not properly purged off--intermittent fevers taken off too toon by the use of the bark-gall-flones or

calculi, or viscid bile, obstructing the gall duct.

The proximate or immediate, an abforption of bile, which has been separated, into the habit—some are of opinion, that bile must be secreted and thrown back into the sluds before a jaundice can cake place—whilst others hold, that an increased quantity of bile not secreted into the gall bladder, by its viscidity or acrimony may also be the cause—however, it is not our bufiness here to attempt to settle these doubts—our opinion will be known by the following

CHARACTERISTIC SIGNS. A partial or total obstruction of the ductus communis choledochus, (36.) most commonly from viscid or concreted bile, attended with a yellow colour of the white of the eyes and skin---high coloured urine, tinging

linen dipt into it of a yellow colour-

CURL. The indications of cure are, to remove the obstructions; which, as it originates from different causes, will require different modes of treatment.

If it should arise from viscid bile, which we take to be the most common cause, in full habits, bleeding may first be had recourie to, and afterwards dandelion draughts may be given, (No. 140.) every night and morning, for two or three fuccesfive days; then the faponacious pills, (No. 150.) four, two or three times a day, with four spoonfuls of the faline mirture. (No. 1.) or infulion of quassia, (175.) or dandelion tea, -- after these have been continued for fix or seven days, if no figns of amendment appear, if the yellow colour of the fkin and eyes begins not to grow thinner, the urine to be of a lighter tinge, and there thould be no yellowness in the stools, an emetic, (No. 11, 19.) then will be proper, which may be often repeated, if necessary; and the day after the calomel bolus and purging draught, (No. 105, 106.) --- fome indeed advise small doles of calounel, (No. 129.) to be mixed with the faponaceous pills, and purged off occasionally --- in addition to what is here advifed, fomentations, (No. 85.) may be applied frequently to the right fide, or bags of hot falt, oats, or a bladder half filled with boiled bran and water, pretty warm; and, by proceeding in this way, there is little doubt but the vifeid bile will be removed, and the cause of the distale conquered.

But should there be any acute pain accordant in the region of the liver, with a quickness of the only, and other symptoms indicative of any inflammatory affections, we must proceed as directed in inflammation of that organ, (340.) before we have recourse to any emetic, which may takely be administered after the inflammatory or painful symptoms are subdued.

Towards

Towards the conclusion of the disease, and to prevent a relapse, the aromatic bitter bolus, (No. 64.) or the deobstruent soap pills, (No. 117.) may be continued for some time twice a day, washed down with chamomile tea, or insusion of quastia,

(175.)

But and Harrowgute waters have been by some considered as specific---they may certainly be very useful in jaundice proceeding from vised bile, or bilious infarction of the liver, towards the conclusion of the complaint, and calculated perfectly to clear the liver from these causes; but in other cases would, from their heating and slimulating powers, be highly improper-

When it proceeds from gall-stones, or scirrhosity of the liver, we must act as in cases of pain in that organ from these

causes. (361.)

When from a redundancy of bile, and bilious colic, what has been recommended in those complaints, (216, &c. will be

proper.)

In order, however, to prevent a return, and invigorate that part of the system particularly affected, the diet of our patients should be light and easy of digestion, avoiding all fatty or viscid substances, or things too powerfully astringent: the body should be kept regularly open, by the occasional exhibition of the aperient pills, (No. 108, 109)---riding exercise should be persevered in, and the place of residence should be such as af-

forded a pure, light, clear air.

HOFFMAN, in curing this disease arising from obstruction, used to begin with bleeding; afterwards prescribed half an ounce of antimonial wine in one or two ounces of oil of almonds, and ordered the patient to drink freely of the decoction of the roots of strawberries, matsh-mallows, liquorice, or a handful of endive, succery, chickweed, chervil, beet, and sour forrel---to each of which decoctions he added two drams of cream of tartar and sisteen grains of nitre---in the evening an opening glyster was given, and afterwards, a purge of Epsom falt and syrup of roses, of each an ounce, dissolved in two or three ounces of water, or made with senna and tamarinds---if these formed not a cure, to the acidulated chalybeate springs he had recourse-

Thirty grains of the aloetic pill, with myrrh occasionally, is a beneficial medicine-

§ 2. DROPSY-HYDROPS;

from the Greek word, udor aqua, water; because this arises

from a collection of lymph, or ferous fluid within the cellular membrane, or different cavities of the body.

When it is general, it is called ANASARGA, from ana, per, through, and fare, caro, fleth—when local, it receives its name

from the part it affects, or the appearance it occasions.

If in the break, it is called HYDROTHORAX, from udor, and thorax, pectus, and cheft—if in the belly, ASCITES, from ufor, near, a leathern bottle, from its appearance—if in the womb, HYDROMETRON, from udor, and metron, matrix, the womb—if in the head, HYDROGETHALUS, from udor, and kephalos, caput the head—and other species, as DROPSY OF THE LUNGS—OVARIA—FALLOPIAN TUBES—but as they all originate from one and the same proximate cause, when curable, they require similar internal modes for the accomplishment.—We shall therefore deferibe the symptoms by which they may be discovered, before we proceed to the method to be adopted for their cure, making some observations where the general rules may be deviated from, with respect to the situation of the watery collection—and, FIRST, of

GENERAL DROPSY, or ANARSARCA—this is also called LEU-COPHLEGMATIA, from leukos, albus, and phicymatia, pituita, from the colourless swelling of the skin, ariting from the col-

lection of a watery or pituitous humour beneath.

DESCRIPTION. In this difease the body has a pale appearance—the whole skin grows foft, with an inelastic swelling -this originates from watery lymph copiously distused through, and accumulated in the cellular membrane, (25.) encircling the whole body, its mufcles and coats—whence arifes a fost tumor, pale and iqualid, over the whole of the machine, retaining the indentation, or print of the deger, wherever firmagly imprefied -the feet and legs fwell, particularly towards the evening, and the tumefaction gradually ascends upwards through the whole cellular membrane-hence it differs from that kind of pasty fwelling which only affects the lower extremities in the evening and fublide in the morning; for in the analyses, in the morning, fome parts are more fwelled, particularly the eyelids and cheeks, also the scrotum, (53.) and penis, (53.) -a dillicelty of breathing comes on, and cough—the patients loft their app. tite, but are very delitous of liquid: - the urine at first is pale and watery, though in the latter stages high coloured, though almost always finall in quantity-the pulie is fir all, quick, and irregulur-there is a flight fever-ice a fords little refreshment-and they feldom or never fweat.

Ascites is a confiderable fweiling of the belly, with a perceptible fluctuation within; for if the hand be laid on one fide, and the other struck, this suctuation is readily discovered. In the common species of this complaint, before the belly appears to swell, the patients make water in very small quantity, which is foul, and deposits a yellowish sediment, or one coloured like brick-dust—the legs generally swell, then the belly—after which a difficulty of breathing comes on, especially upon lying down—the patients complain of weight or heavines—the sich wastes away—and the bowels are commonly costive—general debilty takes place—the pulse becomes weak and frequent—there is a flow sever attends—by continuance the water becomes putrid, and brings on instammation, ulceration, and mortification of the viscera; for, on opening bodies who die of this complaint, some of them are sound diseased, most frequently the liver, next to that the spleen, sweathered, and melenteric glands.

Though we fould observe, that in some cases of ascites, the fuduation is not always perceptible, owing either to the great rescidity of the contained sluid, or to its being confined in a number of cysls, or mixed with what are termed hydatids, or

small velicles full of fluid.

Sometimes the ascites is accompanied with an anasorea, (178.)
—in which case a cure is scarce to be expessed, and, indeed, unless the ascites is recent, and the abdominal viscera in a tolerable found state, our hopes cannot be more savourable; because,
when the viscera are discassed, or strongly obstructed, these
form informountable obstacles to a pleasing termination.

HYDROTHGRAN. Some authors who have been much employed in opening of dead bodies, affert, that this difease is much more common than is imagined—it is attended with a difficulty of breathing, and fometimes of the acute kind—a weight in the cheft, vailed countenance, pasty swellings of the hands and feet, a fluctuation upon motion-a fudden fense of suffocation during fleep, and flupor of either arm—the patients are affected with a dry cough-nor can they lie down upon the fide affected, nor in a supine posture, if both cavities of the chest are loaded. This complaint is of long continuance, and does not intermit. There is often very great difficulty in discovering this disease-however, if there is a conflant difficulty of breathing, with a palenefs of the face, pafly swellings of the feet-should the urine be made in small quantity-with difficulty in lying down, a sudden and spontaneous flarting out of seep, with pulpitation-and water fluctuating in the cheft, the undulation of which can be heard on shaking the patient by the shoulders, or striking upon the ribs-there can then little doubt remain of the nature of the affection.

Sometimes there will arife a dropfy of the membrane furrounding colour—there is a difficulty of breathing, but not so severe as in the former cale--and the patients he down with more cale on the right than left fide-they generally complain of thirst, and have a dry cough--and feel a sense of weight, oppression, straimers, and pain about the region of the heart after satigue or conversation; they frequently saint, and are assessed with palphations, the pulse is weak, early quickens, and sometimes intermits--they often perceive an undulating motion about the third, sourth, or sisten in the pathy swellings of the hands and feet, and die suddenly.

The HYDROMETRON---the water is either contained in the aterus, Fallopian tubes, or ovaria, (30, 51, 50) there are no modes of properly diffinguishing the two latter; but a conjecture may be formed, if any tumor appears in the place where they are fituated, and this should be accompanied with other dropfical appearances. With respect to a deoply of the womb, it discovers itself by a suppression of the mentes---a swelling of the belly---flabbiness of the breasts, attended with unwillingness or inability to move, pain, shiverings, and febrile affec-

tions.

CAUSES. The remote or inducing are, suppression of any accullomary evacuations, as menses, lochia, or piles--too free an use of fermented liquids, spirits, wine, or malt liquor -- crude and viscid food, cold water drank too copioully whilst the body is more than naturally heated-the exhibition of very powerful purgatives, immoderate bleedings, and fallivations; -and, indeed, they are often the confequences of other diferies, as hæmorrhages -revelled gout, dyfenteries, confumptions, jaurelice, continued, remittent, or intermittent fevers-pregnancy, kirrhous tumors of the abdominal viscera, but particularly of the liver, or polypous, or thoney concretions about the heart-or, in fine, whatever will occation too free a fecretion of the ferous fluids into the cellular membrane, or any cavity of the human machine, and prevent the proper action of the absorbent switem, either folely, or in a degree inadequate to take up the fluids feparated into the cavities by the exhalent arteries .- which latt may be confidered as the proximate or immediate cause of all dropiles.

CURE. The indications are, to evacuate the water from the different places where it may be affected; and afterwards invigorate the fyllem, so that the absorbent vessels shall be enabled to perform their functions properly. With regard to the arst point, if the patients are not too far exhausted, and have strength bear the operation, and the case is recent, brisk purging a ne-

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ceiling, with some of those medicines which are known to evacuate in the greatest proportion the serous shuids, particularly jelap, joined with nitre, (No. 151) gamboge, with cream of tartar, (No. 152.) in robust habits—in constitutions more delicate. the saline mixture, (No. 1.) with two or three drams of tindure of jalap, is sufficient to answer the purpose.

Or, ten grains of calonicl may be given, at proper intervals, to prevent a fallivation, affilted with fix or feven ounces of a thong decoction of garlie—and this last given three or four

times a day.

On the intermediate days of exhibiting purgatives, directics and flight tonics may be administered—a spoonful of most added, with a decoction of broom. (176) powder of spuils, (176) and vine in powder or decoction, (176.) quastla wood, (175.) with gentle preparations of iron, (139.) or half an ounce of kali insafed in a quart of Ethenith wine, two or three glasses of which may be taken in the day, and in the evening a slight opiate, (No. 3.) the directic salt, (176.) may be given in any convenient vehicle—or the powder or infastion of fox-glove, (176.) joined with some of the absorbent powders, twice a day, increasing the dose as much as the stomach will bear with ease; for this medicine, though in high estimation as a directic, is apt to create, if too rastly administered, an extreme and uncommon siekness—the exymel of meadow sastron, (176.) one or two drams three or four times a day, or half an ounce once or twice a day.

Gream of tartar, from half an ounce to fix drams, differed in ten ounces or a pint of water, taken early in the morning, has been fuccelsful in various cases both of the analysea and arcites.

But, should neither catharties nor diarreties prove successful, the sweating chair has been recommended, as by this means great part of the dagmant lymph may be evacuated through the

pores of the fkin.

Indeed, some advice for this purpose from one to two serveles of the compound powder of inecacuania, formerly called Dover's powder, to be taken at bed-time, and laying the patient in flannel, and this repeated every other night—the sweating, if procured, should be kept up for some time, and the patient supported with gentle cordials, (No. 98, 29.) or camphorated mixture, (150.) When the sweating abates, the patient should gradually cool, and the surface of the body be rubbed with hot flannel.

In many cases recourse may be had to seatifications with the lancet, or those used in cupping in the lower part of the legs; but care should be taken not to make the wounds either too

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Jong or too deep, for fear of bringing on a mortification; which mult be prevented by foirituous romentations and proper degel-tives—from this operation confiderable quantities of water have been evacuated.

If there are no vifceral obstructions, small doses of back may be continued through the whole course of the disease with considerable advantage, as they will contribute to strengthen the system, consequently promote the action of the lymphatics.

The juice of leeks, a table fpoonful taken twice a day, has been known to perform a cure—and when there is any feverith disposition, the neutral falts of the diuretic class are preferable to the kali prepared—the diuretic electrory and draught,
(No. 153, 154) and the deobstruent pills, (No. 155) have been,
in drophical cases, in high estimation—the pills in cold phlegmatic habits have been said to be esticacions: but where there has
been a tendency to inflammation, suppuration, or mortification,

they are prohibited,

Different have been the opinions relative to the abilinence from, or free indulgence in, the ufe of liquids-inflances of cures have been produced where both one and the other have been efficacious --- one would naturally conclude that the former was the most rational plan, calculated to prevent too great an accumulation of aqueous fluid .- but, in desperate cases, I should not resule the indulgence, particularly where there was an extreme longing; for the mind being gratified, often produces aftonihing good effects on the conditution; for which we are not always able to account. I knew a woman cured by drinking a large quantity of forge-water one evening, where every other remedy had been tried for a long time in vain; and many other inflances are to be found in the works of medical writers. In cales of abdinence, the thirst iometimes will be fo dittreffing, as almost to conquer the most determined resolution --- in order, therefore, to alleviate this unpleafant fymptom, the mouth may be kept moift, and intenteness of thirst affaaged by a mixture of lemon juice and oil -- hard bilcuit foaked in Rhenith wine -- nitre lozenges, tamarinds, or holding a leaden bullet in the mouth, which folicits flow of faliva, and keeps off thirft.

The remedies advited for the analarca may also be had recourse to in the ascires.—in addition to which, the abdomen should be rubbed firely, and for some time together, two or three times a day, with the camphorated liniment, (No. 132.) increasing the quantity of camphor, if needlary.—for this has very often proved an useful auxiliary. Indeed, former practitioners have attri-

butted the cure to frictions with oil alone.

4600 DROPSY.

However, when all our methods fail for evacuating the water, we must have recourse to tapping--which operation is often deferred too long, till the absorbent vessels, by loaking in the watery fluid become fo relaxed, that they never can recover their tone and action--and the vifeera, from the fame cause, will be so fpoiled, that the relief procured can never be permanent -- hence, where the discase continues obstinate, notwithstanding the use of internal and other remedies, a fluctuation of wa er is perceptible, and the abdomen sufficiently distended to prevent the dange, of wounding the vilcera by the trochar used in the operation, we should not hefitate in performing it, taking care to increase the preffure on the abdomen, either by the hands, or a broad belt, during the evacuation of the watery fluid, in proportion as the abdominal cavity is emptied; otherwise the blood will rusa in such superabundance into the weakened vessels, that the heart, for want of a fulficient quantity being carried to it to flimulate its ventricles, would lose its action, and a fatal swooning be the confequence -- for the prevention of which, the operation should be performed as advised by Heister, Sharp, or Monro, in the Medical Transactions of Edinburgh.

On the undusting motion being very flrong, the watery fluid pure, and expable of being evacuated completely, are founded our hopes of fuccess; for where the fluctuation is not very perceptible, we shall have reason to suspect the fluid is viscid, contained in cysts, or full of hydatids, or that it is purulent or bloody,

which are cases more deplorable.

47.41

Sometimes though after the water is evacuated, it will again accumulate—tapping may be again repeated; for numbers have undergone the operation a variety of times, and had by these means their lives prolonged; though their health has been never thoroughly re-established.

In the DROPSY OF THE CHEST, the fame internal remedies may be made use of as in anasarca; and, should these be inessigned as similar aperture within the thorax, as advised in the ascites, under the hands of some skilful surgeon—and when we are so fortunate to procure an evacuation in any of these cases of the watery contents, we must endeavour to prevent its accamulation by such things as will invigorate the system, increase the digestive powers, and add strength and force to the vessels, such as bark united with chalybeates and aromatics, (No. 39 to 41, 61 to 6_5 .)—daily friction with a siesh brush—and moderate exercise—and in an anasarca, if we can be assured that no mitchies surks in the viscera, cold bathing may be conducive to answer

those purposes ... thubarb also insused in wine may be occasion-

ally given.

With recard to diet, plain meats are allowable, preferring those which are roaded to boiled—all crude, watery, flatuient vegetables should be avoided, and those of the flimulant directic class (1755), only be permitted—Rhenish wine, with Seltzer water, is the best beverage—or geneva mixed with some chalybeate, or common water, if the other cannot be obtained.

As the DROPSY OF THE HEAD has often been millaken for other diferies, particularly worms, or cutting of the teeth, on this fubject we think it necessary to be particular. This complaint is divided into two species, external and internal—the former is of little moment, if not united with the latter; for in that water is perceptibly collected under the integument of the fealp and is cured by discutient fomentations, (No. 85.)—blifters, scarifications, and setons—having at the same time recourse to cathertics and diuretics.

But the INTERNAL DROPSE OF THE HAAD is not fo readily diffinguishable, as it comes on with fymptoms so similar to those attendant on worms, cutting the teeth, and other irrating causes---and, when water is accumulated, very rarely; indeed with me, it is a doubt, whether it ever has been cured.

DESCRIPTION. The symptoms of this complaint vary in different subjects --- fometimes they come on rapidly --- fometimes confiderably more flowly -- owing, perhaps, to the parts of the brain affected, or to the different degrees of diffentibility of the cranium; for if the water accumulates between the dura and pia mater, (26, 27.) the pia mater and brain, (27.) and the skull should be loft, and capable of being much diffended, the progress of the disease will be more gradual, than if the accumulation happens in the ventricles, which is for the most part, the case, and the skull should be firm, and not capable of giving way at all -- in general, however, it purfues the following courfe: -at first, there is a pain at the nape of the neck, or thoulders, or fometimes the lower limbs-the arms, though not often, are fimilarly affected-or, should thefe parts feel no uneafiness. the head and flomach become the feat-fickness comes on, and a variety of other fymptoms, fimilar to these which happen in worm cafes --- yet, in a few days, others of a more alarming and dangerous nature thew themselves, such as violent, deepfeated pain in the head, extending from temple to temple, and acrois the forehead --- fickness is now and then very confiderable --- fometimes the patient doses, frequently fighs, and breathes irregularly --- the pulie also becomes irregular and flow --- at the beginning. beginning, and a little before death, there are fome febrile affections, especially towards evening—at length, every symptom which is a concomitant with irritation of the brain arrends by turns—the pulse quickens—the breathing becomes very laborious and difficult—the heat excessive—the patient is averte to light—takes things greedily—and cannot bear to lie in any posture except herizontal—the excrements pass away involuntarily—the hands are commonly elevated about the head—the cyclids become paralytic—and the his, or center of the eye, dilated, and immoveable—the patients are apt to squint, and scream out often upon raining the head, and the checks now and then such, the pulse soon flutters, the strength fails very quickly, if convulsions do not suddenly put an end to the dilecase, and satally close the scene.

CAUSES and MODES OF CURE. Belides those causes which have been enumerated in dropfy, many of which may give rife to this, there has been reason to suppose others mov also be greatly infrumental in producing this, such as falls, blows, or fevere bruiles upon the head, excernive exercise in hot weather, with expolure to the powerful heat of the fun. violent vomiting, the hooping-cough, fland ng long and repeatedly upon the head, or haiging by the middle over rails with the head downwards, common tricks by which children divert thendelves---or, indeed, any other cause which, in full habits and allive conflitutions, difpole the blood too much to the head --- and these particularly where no dropsical tendency has previetily made its appearance; for I am fully perfuaded, that in very many of their cales, if not in all, congettion and flight inflammation are the præcurfors to the aqueous accumulation. In this conclusion I am not only authorized by the opinions of some late judicious writers on the fabject, but by experience, particularly in three cases, two of which were cured, and one proved fatal. In THE FIRST, I was prefent, when a lively, acrive boy, about five years old, came in from play to his mother, complained much of his head, and that, though he was not fleepy, he could not keep his eyes open; on laying him down, he begged to be turned from the light, he could not bear it : and foon after be began to be fick, and vomited conflantly. when any thing was given to him --- on examining him, he appeared heated, and his pulle quick, and frequent; but not much more to that what one might naturally expect, from the exercite from which he had just retired, the pupils of his eyes were contracted, and when a candle was held to him, it was with difficulty that he could for a moment keep his eve-lids open --that there was a load and oppression on the brain, I could not doubt---

South a glyfler was given him immediately, his leas were put into warm water, and eight broches applied to his temples; for his mother would by no means permit the afe of the lancet, nor capping, and that night, four grains of calonel, with the fame quantity of julap and cream of tartar, were given him; before ten in the morning he had two or in trads, in vorating ceased foon after the application of the levelses, he could bear the light better, nor was the papils of the eves in any thing like fo contracted a flate, thill his head was not perfectly eafy, nor was he free from that drowing appearance, he was bled a fecond time, and his party repeated at night, which produced every without for effect, after which he lived for fome time very abfemioutly, and now and then had recomine to purgatives, and by these means he was perfectly reinfluted in his health.

The second was nearly finular, though the fymptoms, not any of them, appeared with fo great a degree of violence, the attack was equally fadden, and the complaint yielded to the fame mode of treatment. In this case I was feat for when the child had been ill only a few hours; and I pursued the idea merely of unloading the head. I had no suspicion of water in

any part of the brain.

IN THE THIRD CASE, the child had been ill for force days, and, from the account given me by the mother, a very featible and intelligent woman, confirmed by the furgeon, added to the fymptoms at that time apparent, I did not hultate to conclude, that there was an accumulation of water in the brain; for the patient laboured under a come, the pupils of the eyes were dilated, a general flupor was prevalent, with oblimate coffivenets, the pulie was irregular, the face foractiones a shed, foractiones was pale, the flools when procured by glyders and dotes of calomel, were fixed, and full of jully-like gluey mucus, and very little usine paffed, and that often involuntary, from the application of a blifter to the head, and rubbing in from half a dram to a dram of mercurial ointment, with two or three grains of calomel given every night, all the fymptoms appeared to be much alleviated -- indeed, fo much, that the parents flattered themselves with the hopes of a recovery-but they were unfortunately deceived; for, on the evening of the day when there favourable appearances prefented themselves, convulsions suddealy came on, and the patient in a few hours expired. Oa opening the head, the brain appeared to be full and tight, the wellels of the dura mater differ ded with blood; and, in cutting away the superior part of the brain down to the ventrieles, innumerable red foots appeared through the fabiliance, which were finall branches of arteries differ led with blood--- and in

the ventricles was a great quantity of water, supposed not to be less than eight ounces---the inner surfaces of those cavities showed evident signs of inflammation, particularly on the bed of the optic nerves, called by anatomists, thalamus nervorum opticorum.

From the fimilarity of these cases, and result of the last, I conclude, that if the two former had been neglected, the con-

fequences would had been the fame.

In the beginning, therefore, of complaints of this kind, bleeding and purgatives should be depended upon; and I am persuaded, if advited in proper time, many unfortunate objects may be snatched from the jaws of death. In the latter stages, I fear we can never promise success, raising a falivation by the use of mercury, or throwing it into the habit in a sufficient quantity, to solicit the re-absorption of the scrous sluids from the ventricles of the brain, or places where it may be accumulated, blistering the head, vapour baths, and the use of the foxglove, (176.) as one of our most certain diurcties, given in small doses, bid the sairest for relief; if any under these deplorable circumstances are to be had, though I am greatly doubtful with respect to a radical cure—however, as the most rational means, they ought to be pursued.

§ 3. TYMPANY—TYMPANITES.

called fo from tympanum, a drum, either from fimilarity of found or diffention—this is a light and elastic swelling of the belly, making a founding noise on being struck, which is the characteristic symptom of this disease—to which may be added, cructations, rolling of wind in the bowels, considered, and pain, relief being afforded by the emission of wind upwards or downwards, and a washing of the other parts.

It is divided into two species, one named INTESTINAL, when it arises from flatulencies in the intestinal canal---the other AB-BOMINAL, when it arises from air pent up in the cavity of the abdomen, between the intestines and the membrane lining the

mufcles of the belly, called peritoneum, (34.)

THE FIRST we must attempt to cure by the administration of such stimulants as expel wind, and are antispassodic, such as carraway seeds, anniseeds, &c. (143.) assaution, spirit of vitriolic ather, (149, 150, 151.) with opiates, (152.) keeping the body open every now and then, with gentle warming aloctic medicines, (No. 108.) and using frictions to the abdomen once or twice a day--by these means we may discharge the flatulencies---and we should also attempt to strengthen the coars

of the intestines, that a relapse may be prevented, by aromatic corroborants and stomachies, such as zedoary, (146.) quality wood, (275.) orange-peel, and some of the warmer bitters—switching the body with a broad belt, and using riding exercise—glysters also may be occasionally given or infasions of chamomite, wormwood, or gentian, in which may be disloted from half a dram to a dram of asafectida.

The second requires tapping, if entable at all-but as this often aritis from the corruption of water or other fluids confined in the cavity, or from ulcerations or mortifications of the different viteera, little can be expected from this operation.

§ 4. Аткорну;

from the Greek a, alpha, non, not, and trepho, alo, to nonrific. This complaint is very often lymptomatic, depending upon some other difease in the habit, which difease, if it comes within the reach of the medical art, by curing, the atrophy, an effect produced from that cause, will also be conquered;—but our hopes can be but small when the wasting of the slesh is unaccompanied with any heetic fever, and comes on without our being able to discover any manifest cause—which is the case in the true Atrophy, or nervous consumers on; for this is a perceptible waiting away of the whole body, without any remarkable degree of fever, cough, or difficulty of breathing, attended with loss of appetite, and too weak digestive powers—hence arise languor and daily increase of emaciation.

DESCRIPTION. In the beginning the habit has a puffy or pathy appearance, the countenance is pale and fqualid, the appetite loaths every kind of food, and is gratified only by liquids, the patients are conflantly languid, and keep very much in bed---the urine is often small in quantity, and high-coloured; tometims pale, and copious---there is neither sever nor difficulty of breathing, but what arises from great weakness—hence the blood, from want of its wholesome supplies, becomes acrimonious in length of time—from whence comes on heat—a hectic sever, which increases—and is at last attended with cough and a difficulty of breathing.

CAUSES. The remote or inducing are, debility in the digettive organs—a poor and unwholefome diet—a delicacy, and meitability of the nervous system—a defect or exerciation of the mucus which should defend the inner surfaces of the heart and arteries, excess of passion, or severe mental affections—very free drinking of spirituous siquors—unhealthy air—too conflant, and too luxurious pursuits—too copious evacuations—old age, &c.—and, in fine, whatever will produce a want of fulficient, nanticy of preparly elaborated juices—or a deficiency in the power of applying them, which are the proximate and immediate causes.

In children, this discase very frequently happens, which is owing to another cause, as well as some of those above specified, which is too soon taking them from the breast, and feeding them on solid sood—in this case the less hang closely down—they refuse to stand upon their sect—their skin grows shrivelled—the whole body, particularly the nose and nates, become flactid—and, in many inflances, their appetite is insatiable.

CHARACTERISTIC SIGNS. A wasting away and loss

of strength, without any hectic fever.

CURE. The indications are, to reflore the tone of the folids, improve the flate of the digestive organs, and increase the appetite, by the use of stomachies, as quasia wood, chamomile, orange and lemon, with chalybeates, (No. 60. without the vineagar and muriatic acid, No. 61 to 65. 71. 497.)—every third or fourth morning the patient should be purged with rhubarb, (1°3)—medicated wine, or beer, should be taken twice a day, (No. 156.) and the stimulating tonic electuary, (No. 157.) may be administered, basiam of copaiva, (165.) Canada bassam, (175) the liquor of hartshorn, or ammonia prepared, mixed with a little sugar---malt liquor, especially London porter, may be drank, as it has proved useful and nutritious to those who have not been accustomed to it—the lightest kind of nourishment should be had recourse to, with ass' milk, beef tea, &c. (133, 134.)

As this difease happens to almost all old men, it is commonly attributed to a want of sluids; and, though it may not be attended with, it follows a fever—here choice, nutritious food, full of juices, is requisite, (113.) also the use of generous wine, and constant warmth in winter, and sleeping with young healthful subjects has been considered as particularly beneficial.

§ 5. Scurvy—Scorbutus.

There are vail variety of eruptive complaints which go under this denomination; for when fpots of different kinds, of whatever nature they may be, and however various their appearance, they themselves upon the skin, for numbers of which we have no specific term, they are all called scorbuic.

However, we mean to confine ourselves to the rUTRID, or SEA SCURVY—which disease is confidered to arise from a specific or peculiar humour, generated in the constitution, and, though

though tometimes epidemic, is neither contegious nor infectious.

DESCRIPTION. This may properly be divided into three stages, marked out by the different degrees of violence of the

fymptoms.

IN THE FIRST, the patients complain of weakness, and are much fatigued on using any exercise—they have a deficulty in breathing, are very often fick, and have a difficilly for, or diffike to animal food-the gums are hot, painful, itch, and on them. as well as the tongue, there appear ulcerations—the teeth become loofe, decay, from the gums being in a great measure deflroyed, and leaving the parts, which in the natural Rate they cover, too much exposed to the air-the breath becomes extremely offentive-the urine is high colonted, finells flrong and disagreeable, and has floating on its furface on oily film, or fkin-like appearance—the pulle, for the most part, is weak, feldom hard, and always grows quicker upon motion --- different coloured fpots appear on various parts of the body, except the face, reddish, fometimes of a blueish cast, livid, or black-the . gums become fort and Ipongy; and from them, as well as from other parts of the body, there are effusions of blood.

In the second, pains artack the legs, which also swell, as do the knees, which impede the motion of these parts—besides, pains also affect the belly, breast, veriebre, and all the muscles of the machine—the face begins to book ghastly—and so great is the languor, when the patients have restrained a long time from motion, that, on being slightly moved, they are apt to faint; and sometimes, if exposed to the open air, they die; now they have often sebrile assections of the erratic, continued, or intermittent kind—palpitations of the heart, and dissipation of swalles ing—their understanding and appetite, notwithstanding their great debility, keep up in a tolerable degree—and they have no pain,

except on motion.

IN THE THIED STAGE, the tendens and joints grow flift, they have frequent fainting fits, great dejection of tpirits—and are extremely fearful, from no apparent cause—the cicatrices of old alcers, if there should be any, again break open—and on the legs, fort, livid, and painful swelling takes place, and spongy ulcers, which bleed—obstructions, scirrhosities, alcers, and mortification affect the viscers—the urine is small in quantity, seeid, high-coloured—discusty of breathing, suddenly destructive, sometimes closes the scene, or they expire in some fainting fit.

CAUSES. The remote or inducing are, living in a moift, cold atmosphere, particularly if in marthy fituations—suppressed or immoderate evacuations—mental affections of the gloomy kind, torrow and fear, perceding diseases—an indolent life, with luxu-

rious indulgences of the appetite—grofs viscial food without any, or with too great a fearcity of, frein vegetables—living upon the coarse salted, smoaked, or dried shell of quadrupeds or infi-few of these causes singly are sufficient to bring on this disease; there must be a combination—salters, from other sources besides these, are subject to the scurvy, because they feed on musty bread, water, fish, and sless, which are corrupted.

Now these causes, either by suppressing the matter of perspiration, which ought to pass out of the habit, or from their own corrupt nature, induce an alcalescent acrimony in the blood, which particular acrimony is the immediate cause of the seur-

vy.

But we must here observe, that it not only affects people who live in cold, damp situations—have little or no vegetable food, wine, or other cordial drink, and are not sufficiently cloathed—but it sometimes riles in dry soils and pleasant situations, and attacks people who live in assume—and hence becomes epidemical, as was the case in the spring of the year 1760, in hompshire; for there it extended its influence in a most amazing manner amongst all classes of people.

From the confideration of these causes, it appears probable, and is generally allowed, that the sourcy arises in the body spontaneously, in consequence of some unknown changes in the atmosphere, which are more capable of generating scorbatic actionory, in proportion as there is a defect of sound vegetable dis

et, ermented liquors, and clean or fufficient cleathing.

But though the combination teems necessary to produce this discase in the soundest and strongest constitutions, still, in such habits as are weak, and naturally relaxed, dull, and slothful, or which have been debilitated by any preceding malady, notwithstanding they live possessed of generous and proper diet, with warm cloathing, experience convinces us, that from changes of the atmosphere alone, in them this complaint will make its appearance.

of the gums, and different coloured spots in the skin, for the most part livid, particularly at the roots of the hair—occurring in cold climates, most frequently, after feeding on puttid or salted animal food, that of the vegetable class being at the same time de-

folive, particularly fresh vegetables.

CURE. Dreadful as are the symptoms of this complaint, if the texture of the whole system of the solids is not destroyed, they all give way to proper treatment. The indications of cure are, to attempt to promote the free exerction of the putrid humours by the intestines, kidneys, and skin, lest, by a stagmascurvy: 469

tion of this fearbatic virus, the corruption may become greater and more acrid.

For which purpose, living upon fresh vegetables, he they of what nature they will, is recommended, particularly those of the cooling acescent or acid kind, such as letence, cabbage, endive, lemons, citrons, oranges, goodeberries, forrel—using cyder, perty, and white wine for drink—milk diet, the creams of rice, oats, barley, sago, wheat-bread well baked, and the sesh of young animals, or broths made from them—onious, garlic, leeks, water cresses, horse-radish, mustard, &c-

With regard to medicines, gentle aperients are only allowable—firong extharties are hartful, as are also all opiates; for they destroy the strength, and dissolve the blood—all metalline preparations should be prohibited, particularly those of quickfilver,

fron, and antimony.

The most eligible aperients are tamarinds, prunes, cream of tartar, or such as come nearest to the vegetable class—in order to affed perspiration, tar-water, spruce, decostion of the branches of the common red fir or pitch tree—to promote urine, oxymet of squills, taken in small doses, but often repeated in the day, so that within that space of time one ounce may be consumed; for by this the body is kept open, the pains are mitigated, and all the excretions promoted.

Every other day, in the beginning, a freat should be raised, by taking two or three times in twelve hours twelve grains of the squill pill of the London or Edinburgh Dispensatories, or the camphorated bolus, (No. 158.)—these should be continued for some time, though the disease should be much alleviated, to

prevent a relapse.

Goat's whey would be very beneficial, with finall doses of Polychrett falt, mixed with two or three ounces of the searbuild paices, taken two or three times a day; for these prove mildly aperient and diuretic.

It there thould be no fear of hæmorrhages, warm baths, made with aromatic plants are ferviceable in promoting perspiration,

and diluting the humours.

Bleeding in general is extremely prejudicial in the fecond and third flage of the fourty—nor should it be used even in the first.

The mouth may be washed with any of the gargles, (No. 44. 46. 93, 94.)—or decection of bark, with tincture of myrth, may be used—to the ulcers, strong decections of bark, absorbed by lint, or soft rags, is the most useful application—and, should the limbs be swelled, or the joint stiffened, they may be bath-

SCURVY.

ed with warm vinegar, or partial vapour baths may be applied.

With respect to the use of vegetables, we must observe, that if patients have been deprived of them for a long time, they must not be suffered to cat of them at first voraciously, as they are apt to do if selt to themselves, less they should fall into a dysentery—they should begin moderately, and increase the quantity by

degrees.

On regularly observing what has here been laid down, particularly the seeding on fresh vegetables, we shall have no reason to be doubtful of a cure, which usually first shews itself by a gentle looseness—and it in a sew days the skin becomes fost and moul, it indicates infallibly a quick recovery, especially if the strength returns, and the satient can bear leing moved and carried into the right air without fainting—but should the body remain in a costive state, now attaching the free use of vegetables, and the skin barth and dry, we must have recourse to the gentle aperient medicines we have before specified, and warm bathing; for nothing continuous more to the recovery of scorbutic patients that goods feweating.

Different other remedies are recommended, such as the decoction of water dock root, with crystals of tartar, (No. 159.)-communicating fizable air to the flomach, by means of neutralizing prepared kali in that organ, (No. 16c.) worr, (No. 16t.) where fresh vegetables cannot be supplied, has been considered as more efficacious than the inspissfued juice of oranges and lemons, mineral acids, or four crout, or what is generally taken and applied at sea for the cure of the seurcy, of which from two or three or four pints is a day are to be administered, if the patient can bear it, and the looseness, which it generally occasions,

be not too violent.

However, though the general plan here laid down will feldom fail where there is a probability of faccels, still, in cases of emergency, where fresh vegetables are not to be had, it may be of some effential service to be informed of those things which may in some degree supply their desects.

§ 6. SCROPHULA;

derived from scrosa, a swine, because these animals are subject to it: when it sixes on different parts, it receives different names—if the glands of the jaw, or below the ears it is called STRU-MA—if under the tongue. RANULA—if in the lachrymal glands, LIPPITUDO—if in the thyroid gland, BRONGHOGELE, or Derbythire throat—if the glands of the arm-pits, breasts, grous,

lungs,

langs, melentery, or other parts, then it is called, though faid to be improper, a fairrhus of those parts. Notwithstanding the chief feat of this disease is in the glands, (24-) it does not only to cupy them, for it seizes the adipose membrane, muscles, tendons, joints of the body, and the bones themselves.

Scrophulous patients, it is observed, usually profess a more lively disposition, and a maturity of understanding superior to others in the more early periods of life; and that this fixed disasse will continue, without aimost any change, until the are of puberty, at which time it recedes, and the patients become

more robult, and freer from other diforders.

Authors are not agreed whether it is contactous or notfeme fay, that it may be transmitted from one to another, and that it is capable of being communicated by a norfe—however, to long as a doubt remains on this head, prudence should per-

fuade us to advise scrophulous patients to lie alone.

DESCRIPTION. Tumors, generally about the bigness of a pea, bean, or chefnut, hard, indolent, moveable, of the fame colour with the fkin, unless they should be in a flate of inslammation, for the most part, feize the fauses and neck-often preceded by irregular pains of the belly; but they are also fixed in the arm-pits and groins-though they increase gradually, and adhere to the neighbouring parts-after they have remained for some time in this state, they at length begin to be painful, attended with heat and redness of the fain --- the pain is of the laneinating kind, coming on now and then, from the forephalous humour becoming acrimonious --- new a lurking fever begins to make its appearance --- and in the part affected there is a hard lumpy feel before an imperfect suppuration takes place, which in fome weeks, or months, breaks, and fram thence iffues forth a thinnish white and cardly matter, which distinguish them from other species of tumor, leaving a foul ulcer, with the lips swelled and hard, these are healed with difficulty, and then very flowly, leaving a difagreeable cicatrix --- formetimes the ulcers are of fo virulent a nature, that they occasion a foulness of some of the contagious bones---when these scrophulous tumours affect the lungs and other viscera, a confumption is the confequence --- and, indeed, perhaps, greatest part of the confumptive cases may to this owe their origin --and fuch children are very obnoxious to many incurable difeates, dropfy of the belly, diarrhoa, heltie fever, emaciation, dissolving sweats, &c.

The ferophulous humours of long continuance fometimes fives in the joints, and there creates tumors---whence stid joints, twelling of the bones, and infinite other incurable maladies---

fo that strumour swellings of the neek may be considered as the smallest part of the disease.

The joints mod commonly affected are those of the fingers, writts, knee, elbow, and ancle; sometimes that of the thigh--a strain in any of which will often be the cause of the screphulous taint settling there, and shewing itself more suddenly, than if no such accident had happened; for then the swelling comes

on more gradually, and without pain or difcolouration.

But sometimes this humour does not shew itself externally, but fixes itself in the internal parts of the habita-in these cases if there should be thickness of the upper hip, which is generally held as a symptom peculiar to constitutions, where the sero-phulous taint is prevalent, and without any other concomitant symptom, there will be sufficient room to suspect a scropbulous actimony---in these cases, the glands of the mesentery are generally sound stuffed and calarged with a cheesy, purulent, earthy matter---hence come on emaciation, heelic sever, and death.

Sometimes the fame matter will fix itself on the lymphatic glands of the lungs, and produce cough --difficulty of breathing --- and confumption :-- and, when scrophulous tumours are un-

equal, they are apt to become cancerous.

CAUSES. Those which are remote or inducing, are faid to be, living upon coarse, viscid, or acid diet--or too great quantity of sweets—want of proper exercise—external injuries---preceding discases--venereal virus---a moist atmosphere---exposure to too severe coid—nurse's milk being too acceptant or viscid---or being herself in a diseased state---drinking snow water---disseasion of any joint---or having the scrophulous taint inherent in the constitution.

The proximate or immediate, a viscid depravity of the serous or lymphatic humours, obstructing and studing up those glands of the machine called conglebate or conglomerate—the first of which is a little smooth body, wrapped up in a fine skin, by which it is separated from all other parts, only admitting an artery and a vein to passin, and giving way to a vein and exerctory dust to pass out—the EAST counts of a number wrapped up in one common membrane.

CHARACTERISTIC SIGNS. In general there are tumors of the conglobate, and often of the conglomerate, glands, particularly of the nack, the upper lip and fides of the note being full and fwelled, the face florid, the fain fmoeth, and the belle fwelled.—When it does not make its appearance external

Tyi, lee the symptom: (472.)

CURE. This didele is extremely difficult to conquer, ow-

capable of lurking long in the habit, without manifelting itself, hence, before people are aware of its explence, it gets a firm footing in the conditution, which readers it to huitful and unconquerable in its effects.

However, the indications of cure are to clear the lymphatic fylem, fubdue the actimony of the mothed fluid, and fireignisen the hibit in general—for which purpoles many medicines

have been recommended.

Some advite the application of the herdock plainer, with arranomiacum, (No. 1992.) with line water and burnt pronge, or vegetable alkali, interests—queging the patient now and then with black hellebore and calomel.

Others, millipedes, or word lies, all milk, drestrism of farfaba.

villa, with barnt from je, or kali propored.

The long continued use of the decoliver, or joice of coits foot, has been confidered by tome a certain remedy-mill solvy, with

the dead notice, has acquired much prane-

But the chief remedies in which practitioners place any confidence are, bemisch-hark, fixed foiled at the feature, and feature,—and, perhaps, in the proper applications of these we shall find the greatest probability of in ceis, applied according to the different electrons was of the different electrons.

Before there are any symptoms of suppuration, or hestic feyer, with wallag awar of the sless, the sea-water answers the best; of which from half a pint to a pint is to be drank every morning for some months; and the parions should also beth in the sea—the water gently runges, promotes secrets a, warms and flrengthens the habit—and, externally applied, discusses the tumore, and prevents the increase of the ectimony of the sloid; —but in the insummatory slate of the custom it is better omitted, until the insummation abates, or the matter is discharged.

At first fea-water generally occasions third; but that foon wears off, or sleeping after it abates this aneasy fentation. It has also been of ferrice where a caries has affected the boxes.

Some give it only in fuch quantity as to keep the bowels moderately open; and, when it creates thirlt, mix it with common water.

When there are running alors, and a degree of hestic forer, the bark is then preferable; and the best mode of adminisering it is in tinefure made with line-water, (No. 163.) with which may be administered the powder or extract of hemlock, (152.)

When the difease becomes to be inveterate, and approaches to the seirrhous or cancerous state, hemlock must be given freely,

gradually increasing the dose to the utmost quantity the nations can bear; to which small portions of colomel, or con five tab-I mate, may be added, a quarter or half a grain of the former, or one-twentieth, or somewhat more, of the latter, to each doie; for these not only promote Supportation, but meliorate the delacharge from the ulcers :- but this mode of termination flould be avoided if possible, as the alcers which succeed are flow in healing-when they, however, form ablectles, it is needfory to objecte, that they should never be opered till all the lumpy indu ation is diffolved; perhaps in this thate it is even better to leave them to themselves; for it is remarked, that they often 2. feer better when they break frontaneously, than when opened by art; and the finules that are formed afterwards are feldom foured by dilating -hence it is unnecessary, as well as inhuman, to torture the patients by repeated incifions; for thele fores never heal up until the acciment thall be either fubdued, or the conflitution acquires fullicient firmaels.

The common fea wrack rubbed on, or applied in form of cataplain, formetimes isitens, and differfes them—or fr fb ex-gail, mixed with feap liniment, is confidered to form an efficacious re-

folvent mixture.

However, in the indolent flate of these tumors, all imitating or stimulant applications, though of the weaker class, are feared ever to be used, because they are apt to bring on suppuration.

Fixed fifte all is, called foda, (191.) with firong decoction at colts foot, I have known ferviceable, continued for some months mand it is adviscable to give mercury united with hemlock, (47.) and bank decoction, (193.) and administer these alternatedly, changing them every three or four weeks, when we find the symptoms cealed to abate by the application of any of them—that medicine called the terra ponderosa muriata, muriated barytes, given in small doses, of three or four drops, grainally increased, is a medicine presentable to the soda—though alone I have never experienced the very great esseaty which I have been told it pessented very evident advantages from its use—it seems chiefly to act as a diuretic and gentle aperient.

Large fetons, or iffues, may be fet, as perpetual drains to the

habit; they are ferviceable.

In ferophulous cases of long flanding, sulphureous waters, as those of Harrowgate, Mostat, and Llandrided, have been said to be girly beneficial; but, in order to accomplish a cure, there should be a steady perseverance in general for some years;—finite is frequently sound that all these various methods fail, and



and nothing, except the removal into a warm climate, will fo well eradicate the complaint—though we have inflances of people being cured by living a feries of time upon the fea coall.

With regard to all external applications, those of the affringent and filmulant class are the bell, fuch as water of acetated Itharge, (139.) diluted - fea-water, water with every kind of faline or n ineral impregnation -- cold water alone hath often produced a good cuick; for thefe promote circulation through the veilels and give it much to the parts already in too great a flate of relaxation. Their, however, come more under a le fur gen's hands; and therefore we refer the acader to the works of Mr. Wiseman, Heitter, and Bell, which may be confusted on this Subject with advantage. With respect to diet, it should be of the mahr, dry, and early disettible kind-all vifeid food flor! be carefully avoided --- fleep should be taken moderately -- and al-In gentle and conflant exercise, particularly in a day, warm dir; for most iterations, and those which are cold, are extremely pernicions--- and also frictions will be beneficial--- in fine, every thing that will keep up a free and regular thate of peripiration, and affilt in invigorating the fystem, should be folicitously obferved.

6. CANCER.

This we may fometimes trace from the foregoing difease; for it has been observed, that some of those who, in the early periods of their lives, have thewn appearances of fcrophula, have in the more advanced stages been affected with convers---hence it is not improbable but that there may be fome affinity between the humours producing these two difeates. It has been called CARSINOMA, from the Greek word karkinos, cancer, a crab, from its appearance, the turgid thins running round the margin of the tumors being lomething fimilar to crabs claws-- and when a hard felicihous tumor begins to be unequal-puts on a livid caloutalias acute datting pains thooting through it and at the fame time veins furrounding it being diffended, and having a ferpentine appearance, called varicole-thefe are fymptoms confidered as declaratory of a cancer .-- but, indeed, fometimes it will arife in the lips, gams, tongue, and fome other parts of the body, without the appearance of teirrhus preceding it.

When this tumor lurks under the fkin, it is called occurbut when it becomes ulcerated, it then is called epen, and is distinguished by a very off-mive and facil discharge---the lips of the nier inverted--an hardness of the skin, an exudation of a thin, actimonious fluid -pricking, darting pain, very acute, and obtimate refidence to every application.

Like feropholous times cancerous ones are lumpy, unequal; but exceed these and every other species of times in hardness, though, whilst they remain in an indelent state, and without any discolouration in the skin, they are termed SCIRBHI--when on itching is perceptible, succeeded by the darting pain we have before described, the skin turns darkish or livid, and the veins unler the skin put on a varieose appearance (17.5.) in the part affected, they then are considered as CANCERS.

DESCRIPTION. A cancer in the beginning is generally fmall, and increases gradually; and notwithflanding the changes of the colour of the fkin already mentioned, and that of becoming painful combine incolour, it is sometimes very difficult to determine, were the transition from one flate to the other takes place, because, according to concurring causes, the progress

becomes quick or flow.

It has, with great judgment, been remarked, that when peculiar kinds of burning flowing pains, an aberation of the colour of the fine to that of brownish, purple, or livid, appear, then the difcate may be confidered as a malignant feirthus, or confirmed cancer—and also when it is arrived to this state in women's breasts, the magnitude of the tumor greatly increases, and very quickly, having a knotty, unequal surface, a greater number of clands being obstructed, the nipple sinks in-full and turnid veins conspicuous, distaling themselves some distance round the tumor, and resembling the claws of crabs.

There are dreined characteristic figns of an occult cancer externally fituated; but when there pains and heat indeed in parts where the patient has before been femilible of a weight and preffure, accompanied with a dull pain, we have great reason to be-

lieve it lurks internally.

A cancer may remain in an inclolent flate for years, without any ulceration, yet the humour may acquire such a degree of acrimony as to crode the integuments, then commences the open cancer, from which will issue a thin sluid of so caustic a nature, that the neighbouring parts will be speedily corroded, whether hard or soft, and thus torus an ulcer so obtlinate, that it is incapable of being nealed by any applications yet discovered, nor can the retimony be corrected or subdued by any known alterative—the sich within the ulcer becomes spongy—the lips of the wound swelled, sivid, and inverted—the pain intolerable, the glands of the neighbouring parts become obstracted—sometimes incommendages cance, the appetite is lost—a flow sever, with watering of the stein, comes can—the arenge fails, the patients are as

CANCER. 477

Colled with convultions and twooning-and death, more defirable than life, closes the miferable foenc.

CAUSES. The remote or inducing are faid to be, for pressed evacuations—great dej filon of spirits—frights and anger—a mode of living, nucleones, or other diseases generating a corrolive actimosy in the blood—an increased motion in the blood, from whatever earne it in, y unite, cold, external instinction from triction, compression, ergalpolits, or medical tubiliances—based—and, and a like of collibery; for women who have lived in that site, as well as arriving at the period of two truel or fix on, are most liable to this complaint—past to that, a collect with have not such disclosurable to the disorder, are many, and those who are lead subject to the disorder, are many, and women who have raised their own children by the break.

The proximate or immediate is supposed to be, a specific corruption or purrelaction, though does in its progress, of the hu-

mours obttructing the glands.

CURE. A true caneer, I believe, is follow or ever cured, except by empatizing the part abstred—if, therefore, the complaint is in its resent flate, imall, folitary, and moveable—of pecially if it consists an external injury—if it is in a free fituation, with a unique to any large well As, nerves, ligaments, nor to the bones—the conficution being good, and in young fubjects; the part affected may be taken of by the knife; and this mode is preferable to the application of any caudic fubflances—but, in all these cases, where operations are to be performed, or external applications made also of, the best advice we can give is, for the patients to depend on the judgment of

some cautious and experienced surgeon.

With regard to medical adidance in their fairthour tumors, before they have put on the politive appearance or cancer, experionic authorities us to recommend bleeding, to take off the general fullness of the habit .- afterwards the application of leeches to the part effected, and that repeated, as occasion may require, and now and then exhibiting a cooling pargative- are deed, where we are led to believe there may se a concereus tendency, from force argree and continuance of pain, topical bleeding is macefley, and the application of pouldices made of hemlock leaves, with the internal calcibition of the fame medicine, (13.5) in extract of powder, has an areatly flopped the progress of the complaint. Indeed, in these three cases of feirtholdy of the attens, by the proper management of hemlock, correlive faminate, opiom, and fone admical page ations, I have known great be. It to be defined -- one of maken, the most victent, encuered as theightelidigs landy, when I are

tended with Mr. Williams, an attentive and judicious practitions er, the patient was a perfon of delicate habit, fabject to hyffere affections, from firong nervous incitability, and whose muscular fyttem was also more than commonly irritable -- the complained of excluding pain in the lower part of the helly-her pulie was quick, Ikin dry, totally reflicfs, and very thirdy, ile now and then complained of chillness, which was always fuccoeded by a hear of the tkin, and a quickness of the pulfe, that always increased towards evening, and went off by copious per-Ipiration, the womb vas as parently much enlarged, very haid, and profied low down into the polvis, the complained of pains darting through the lower part of the belly, and, from the weight and pain was altogether incapable of walking, nor could be moved from her bed without great agony-whatever the took for fome time the vornited up, to that the received, for the space of three weeks. little or no nourishment --- the was also often and strongly affolded with that unpleasant sense of suifocation, or chooking, from the contraction of the throat, called globus hyflerious -- the had also through the vagina a very oftentive and acrimor ous ellibrance, which, from excoristing the parts, occasioned her much additional uncalinels, however, by the use or hemiock, corrolly e sublimate, and a jointion of aifenic given interestly, after her feverille femptoms were abated, by the afe of abre a saint, alleviating her pains by opiates, and keeping the bowers open by mild aperients, the was enabled to love her bed, was totally freed from all pain, and has continued appearently fo well for fome months, that the enjoys a flate of hadrh inperior to what the experienced for fome time before her i disposition began to be so severe. I should also have observed, that the made use of an injection formed of a decoction of hemlock and poppy heads.

In all cases of cancer, whicher occult or ulcorated, the patients though be here on cooling diet, milk whey, and milk, with the use of warm baths, and, perhaps, whilf the cancer is in the former fixed, wearing a hare or rabbet skin over the part affected is extremely useful—the pain should be moderated by accasional bleeding, cooling parger, in spare, thin, cooling diet, and gentle opiates; cordials, exercise, and whatever can give too quick motion to the circulating shuids, or increase the heat

of the machine, should be avoided.

The purgatives proper to be used are Glauber's falt, fel polychreft, or some other of the cooling and gentle purpatives, (171, 172.)—and in cases of febrile affections, fatiac mixture, or nitrous medicines, (No. 1, 2.) are adviteable—and for dital, milk and water, or tariapatilla decocites.

Hem-

Hemlock joined with bark, and finall doles of corrolive fub. limate, has by fome been ranked among the mod efficacious of all cancerous medicines -hali a grain of the latter of which, diffolved in spirits of wine, and given in concess of the face and note, night and morning, has been recommended as very benchoial -- in cancers of the breath, an infraion of deadiy nightshade has been considered as the most useful-

Of hemlock, the fresh juice is thought more efficacious than the extract, beginning with four or live drops, and gradually

increasing the dose.

With respect to external applications, various are the materials recommended in this point, fuch as poultices of hemicek, goods-grais, carrot, iolutions of arienie, lead, acetated cerufs, fixable air, &c. but as it is our province only to treat on complants medically, we must refer our readers to the works of furgical authors on this part of the fubject.

8. CLAY, OR GONORRHORA VIRULENTA; POX, OR THE LUES VENEREA.

Notwithflowling there are authors who confider their as two dillinet addeder, and sive it as their opinion, that they write not from the fine controlous matter, I shall beg leave to treat them under one and the tame had it per cally perioaded that they are the fame dline, under dalbant configurional circumstancesthe field act in I from the ranter acting locally, the found from its being all what into the lat sit, and being cone general in its e.f. 1, -- for I cortainly he will wan the hors wife from the injudicious treatment of a grammum-and here can parients who, having had commerce with the many worms, childrently offected -- the one labouring under a general runder, the other completely mixed -Beines, I have keenin fome men, who, in their insuce and in when under underly discald, have never experienced the for us, but were always affected with the latter.

I hould therefore confider the governmen virulenta as the morbid no ver a har in its fraplest state, and the lues in its more diffused and confirmed state.

And, hell, of the GENERALOSA, improperly to called, as the term in mits a list of femen, from the Unital gove, femen, feed, and rea, Mas, to slow, which is not the cule, the discharge being nothing more than a flow of much, finitian to what iffees from all inflamed influes. Dee Exudation, (300, 301.) I shall confiler it, therefore, as a VIRULENT MUGO-PURIFORM GLEETthe method of preventing which, after commerce with a fulpi-

cious woman, has been pointed out, (101) the means muß be supplied of discovering and cuting it, when it has begun to exert itself.

DESCRIPTION. To this complaint both fexes are equally liable and it is generally allowed to manifely itself in each in the

following manner:

IN THE MAN-Fine days, from four to fix. felcom longer, affer the reception of the contagious matter, there ariles not an propleasant titiliation in the glands of the penis, (55.) in the orifice of the urethra, (5.4.) there appears a little thin liquid - foon atter which the orifice fivells, grows red, with a degree of heat, and is more than commonly open - in a small frace of time there is a sentation in making water, hot and feelding, and fomething The the pricking of needles - a kind of matter, more vifeid than the former, and in larger quantity, makes its appearance, ishing from the urethra-that when the difeate is more violent in its attack, through the course of the unothra, as far as the neck of the Unider, there is perceived a fort of tighteels or fullness, strended most commonly with erections, more frequent and painfal than ulush-the isfluentation row begins to increase, if left to itleif, every day, confiquently the heat and pain, and the difcharge puts on a yellow or greenill appearance, fometimes mixed with bloody itrealized the imbanication runs high, there will not unfrequently be pains in the groins, tefficles, and loins --- tomorimes a firangury, (367.) will come on, and the cationt at night will be town uto I with erections, and a bending down wards of the penis, called eventer.

At length all these fymptoms grow milder as the inflammation above—the discharge becames white, and more uniform, and at last issues from the urethra white and vised like a fine thread, gradually diminishing, till appearing, now and then on-

ly, in drops, it totally ceases.

This is the description when it pursues its natural course, ac-

counted for by the laboranceion receding by degrees.

In the women, it discovers itself is a tente of itching at first in the external orisics of the vacina, (51.) and a more than common moisture—in a few days the parts begin to inslame, grow hot, swell, and become very possibly occasioning a fealing in making water, but not so painful as in men—and to these, a discharge of virulent discoloured muco-puriform matter makes its appearance; and, as the inflammation goes on, becomes white and more viscid, and by degrees entirely access.

With these appearances, we should naturally conclude that a patient had received the virus; but this is not siways the case; for the very same may rise from other causes not accepted with

the

the venereal taint, as very fevere exercise-hard riding, and immoderate drinking-the too copious ale of very heating flimulants, using too caudic injection by way of prevention-or. in fine, whatever will bring on an inflammation of those parts-I mention this, because fometimes, particularly when these circumillances arife in married people, it is effectially necessary to make the proper diffinction, to fave the peace of a family-as I have feen that peace nearly deflroyed by the indifferetion and rathnels of a practitioner, pronouncing in a hulband that difcharge venereal, where the ties of connubial honour had never been intringed, and where the character of the wife was, with great juffice, unfullied. In our opinions, therefore, we thould be extremely cautious, and wait for the appearance of fome unequivocal fymptom before we pronounce politively, particularly as the first stage of the diferie may be cured in the same manner as thou'd be advifed in cases of simple inflammation without any venereal taint.

This complaint we confider as a virulent muco-puriform gleet, arising from irritation, produced by venereal virus, after impure concubinage, attended with inflammation of the urethra, a flux from thence of puriform mucus, and a heat or fealding in making water.

The common term CLAP arises from the old French word chapteres, which were fingle shops, kept and inhabited by single prostitutes, and generally confined to particular parts of the town.

CURE. The indications are, to take off the inflammation, and give strength asterwards to the vessels, which have been

weakened by too strong action and distension.

If, therefore, at the onset of the disease, the patient is of a plethoric habit, strong stamina, possessed of great vascular irritability, we must have recourse to bleeding and gentle aperients for two or three days, and plentiful dilution with watery shids, such as barley-water, linteed-tea, marsh-mallow-tea, or folution of gum arabic in warm water—bathing the penis once or twice a day in warm milk and water, or poppy head decocrion—leeping the glans clean, and supporting the testes by a suspension.

The opening medicines may be given occasionally, so that two or three stools may be procured every day, (No. 23, 24. 66. 97. 99. 135.) any of which, as best fuits the patient, may be administered.

After three or four days, when the discharge begin to flow copiously, we must alleviate the inflammation by the fedutive injection, (No. 164.) which should be thrown gently up the

urethra two or three times a day, and retained for fome time after each operation—when this has been used for four or five days, or form times longer, 'till the painful fymptoms appear to be yielding, and the disharge alters its colour, and grows more viscid, to this may be added fix or eight grains of acetated ceaus, and applied in the same manner, and in a few days more the cure will be often completed—but the disharge in some cases will be of longer duration, from the relaxed state of the vessels, brought on by the preceding inflammation—when this is the case, the discharge is much whiter, or clear—the confidence viscid and repy, under which circumstances, we must have recourse to the restringent injection. (No. 165.) or that made with calonnel, (No. 165.) for this acts as a local stimulant, and may therefore be serviceable.

. But though this method will generally fusceed, there is fometimes one symptom extremely troublesome, and calls for var icular attention, thould it be violent, which belongs to the first stage of this complaint, that is, the CHORDEE, to called from the Greek word korde—this is a contraction of the under part of the penis, which, when it is erected, and only then, is painful, and feels as if pulled down with a chord-this pain is chiefly under the frænum, (a membranous ligament under the penis, which ties the præpuce to the glans,) and along the duct of the methra, for the alleviation of this symptom, low living is particularly necessary-gentle exercise-avoiding all inebiliating liquids-lafeivious conversation, and the company of lewd women—the penis may be bathed often in a day with warm mill; and water, or the fedative fomentation, (No. 111.) may be used, keeping the glans covered with the prapuce duzing the operation - and poultices of bread and milk may be applied to the parts.

Bleeding with Iceches upon the part has been highly useful —wearing tight drawers, by which means the penis may be confined downwards to the thigh, and crections prevented,

which greatly aggravate the painful affection.

Sometimes it will happen, that, from the violence of the irritation, the fecretion of the mucus feems to be totally suspended, or, at least, considerably diminished, so that no discharge, or only a very triking one, takes place, though the other symptoms rage with great violence, under these circumstances we must have recourse to bleeding, emollient applications, somentations, (No. 85 or 111.) and poultices, these are necessary to abate the irritation, and bring on the discharge—and here also oriates are necessary—afterwards we must have recourse to the same remedies as we have before specified.

Befides

Besides the symptoms we have repeated, sometimes uneasimets in the glands of the groins, and swelling, called bubo, and similar effects in the testicles, occasioning pain and tumesactions, will occur, but these arise from sympathy, where no absorption of virus has taken place, and will yield to the same modes of treatment as above land down, consisting of the cooling plan and

topical fedatives.

But when the virus is abforbed into the habit, it gives rife to to variety of complaints, which have received various apportations from the parts affected, but are all owing to one and the fame cause. The disease then is confidered as the POX, or LUES VENEREA, which may be communicated to the habit, wherever the venereal virus gets infinuated into any part which is wounded or ulcerated, or from ulcers formed by its own accimony, or from parts being touched by it where the skin is ab aded—and the places where the acrimony first makes its entrance, are those where the disease in general first makes it appearance—and as coition is the most common way of contracting it, so the first symptoms most frequently appear somewhere upon the genitals.

DESCRIPTION. We may justly fuspect that the virus is difficied through the general mass of lymph, if the local symptome, such as shankers, buboes, &c. do not give way to the usual methods of cure, or, when cured, if they break out again without stresh contagion—but if, at the same time, we find ulcers breaking out in the throat, dry scabby eruptions on the skin, or hard callous tubercless or pursules covered with a yellow scab, and appearing chiefly on the hairy parts, we may

be certain that the case is confirmed.

But sometimes these symptoms appear without any disease of the genitals, and may be produced by other species of acrimony---it may be necessary to give what we considered their characteristic appearance.

Venereal eruptions have a branny appearance, and are supersial, unattended with itching, and the scales being picked off, the skin appears of a reddish brown, or rather copper colour

underneath.

The twiercles or publies, seldom occupy the cheeks or the nose, nor have a purulent aper, but are covered at top, either with a dry branny sours, like the cruptions just mentioned, or else with a hard dry scab of a tawny yellow colour; they particularly break out amongst the hair, or near it, on the forehead or temples.

Venereal alcers of the mouth first affect the tonsils, avula, and sauces, then sometimes, though very rarely, the gums---fucquently extend to the nose, and are callous or hard in their
2 P 2

edges -- they are circumscribed, and, for the most part, circular, at least they are consided to certain places -- are generally hollow, and most commonly covered with a white or yellowish flough at the bettom -- are red in their circumstrence, and frequently corrupt the adjacent bones -- and are also, in general, combined with symptoms known to be venereal.

With refpect to pains, those which are deep leated, particularly of the arms, head, and sains, always fixed in the same place, and which affect the middle and more folid part of the bones of the arms and legs, and those of the head, raging chiefly and with great violence in the fore part of the night, may be held as sure figns of this discase—but other wandering pains of the membranes of the muscles, and the ligaments of the joints, though they may arise from a venereal taint, they cannot be considered as certain figns without other symptoms of the lues

are apparent at the same time.

Hard indolent swellings in different parts of the body, as in those which are fleshy -- in the periosteum; upon the tendons; upon the ligaments; or upon the bones, or those extuberances at the verge of the anus, called fici; though they are all of them rights of a confirmed lues, if they are not preceded or accompamed by fome certain figns of this difease that are more certain and evident, we should be very cautious of concluding that they proceeded from venereal virus; for they may depend upon fome lurking fcrophulous humour. And here we must observe. that when they derive their origin from this last clause, they are very feldom painful, or tend to inflame or suppurate, whereas those which are venercal usually do; and, it they lie upon a bone, generally produce a caries --- upon the large bone of the log, fore arm, and those of the skull, these carious ulcers are most commonly met with, and when they are affociated with nocturnal pains, we never can hefitate about pronouncing their specific nature

Frequent abortions, or the exclusion of feabby, ulcerated, half-corrupted, and dead features, happening without any manifest cause to disturb the featus before its time, or to destroy it in the womb, may be reckoned as a fure fign of one of the pa-

rents being contaminated.

The more recent the complaint is the less difficult it will be to cure--and the habit of body is a material confideration; for those whose blood is in a mild and bland state suffer less confiderably than those who have their juices acrimonious; for the diffeate is remarkably violent, and extremely difficult to cure, in scorbutic and serophulous constitutions---and in a person already inclined to assume pulmonary consumption, dropsy,

gout

goni, or any other chronic diforder, it is also more tedious, for the tame reasons, than in one whose babit is in a found and healthful flare; for as the original difease is increased by the accession of the venereal virus, of the lues is aggravated by being joined to a new diferder, informed as the constitution labours under complicated mischiefs.

The remote dynastems erife, and the more they affect the bones, to much the nore difficult the cure; because the venereal virus appears to occupy the minute parts of the habit, and be very univerfally difficiel through the humours—but the malady becomes incurable if the virus affects the brain, the lungs, the liver, or any of the nobler internal parts, the patients will either fink under that confumption called tabes, or die apoptectie.

CAUSES. The remote or inducing are, all those applications which influme or dry up local venereal ulcerations, whether astringent given internally, or exhibited externally, or the dif-

cuilion of bubbes without the exhibition of mercury.

CORE. The indication is, to free the habit from the veneral contaction, which may always be done by mercury in fome frame or other, either alone, or combined with fome other medicines, which the peculiarity of the conflictation may demand, as in every frecies of this complaint, or every complaint arising from this fource, where we are called in before the virus has got firmly rooted in fome of the more noble organs of vitality.

Different practitioners have been fond of different preparations of mercury, and different modes of throwing it into the ha-

bit.

Some advice calomel to be rubbed on the infide of the line, or cheek, to the quantity of four grains every day, and let it be taken into the helical state.

ken into the habit by the absorbent system.

Others prefer the mercurial ointment, (No. 167) from haif a dram to two drams to be rubbed on the infide of the thighs above the knee once or twice a day for some space of time, 'till all the venereal symptoms vanish.

Some have been fond of calcined mercury, (160.) and opium, half a grain of each formed into a pill, and taken night and morning, with a decoction of the woods, (No. 88.) increasing the

dose to a grain each or more.

Others have given the preference to the corrofive fublimate folution, (No. 168.) mixed with half a pint of barley water, or decaction of the woods, (No. 88.) to be taken night and morning.

The patients should lie in bed to sweat after taking the meditine, and they ought to drink plentifully of whey, barley water, or some such liquid, throughout the day—and if the medicine arts not as a gentle aperient, a mild purge may be given occasionally. It has been observed, that those whom it purges two or three times a day get well sooner than those whom it does not purge—it very feldom affects the mouth, but promotes discharge by urine and the skin. This course is to be continued some weeks after all the symptoms disappear—and the decoction of the woods should be taken for some time after the solution is left off.

Some prefer the sub'imate pills, (No. 169.) under the idea of their being more easily and fasely taken in greater quantity, and from the stomack hearing it better in this way; for the pills, gradually dissolving, are said not to affect the stomach suddenly as the solution drank.

However, I think quickfilver mechanically divided into its most minute parts, which art is capable or completing, the best mode of administration, as in the mercurial gummous folution. (No. 170) or the mercurial gummous pill, (No. 171) as the

form best pleases.

These seldom produce salivation, is some purgative is exhibited every tenth day, and are said quickly, safely, and pleasantly to take off all the effects of venereal virus, where no chirurgical operation is processary, and then to be highly useful in expening the cure; for by this mode of administration, a sufficient quantity of this powerful medicine may be thrown into the habit with the greatest case, without producing those violent effects the faline mercurials are very apt to occasion—and, perhaps, it is from this power of filling the habit by these mild means upon which its superior esseay depends-

For children, where mercury is necessary to be given, the mercurial fyrup, (No. 172.) for obvious reasons, claims the

preference.

Where mercury given in these modes fail, which, under proper management, it rarely does, corrolive sublimate has been recommended—essemble by many the most presentation in venereal diseases of the skin, and those of the benes-

Some cases there are, however, which will not yield to mercury alone, and some where success has been derived by varying from time to time the mercurial preparations administered, and conjoining them frequently with cicuta—administering farsaparilla decoction, that of mezercon, (No. 173.) or back with chalvheates, or conding medicines, opiates, antispatmodics, or cordials, such as the constitutional circumstances required. But here the fagacity of the practiconer must be left to make the necessary distinction, as it is impossible to point out up upon

paper

paper precifely the deviations which may occur. We shall only observe, that where the disease resists the modes we have laid down, the practitioner must labour to find the constitutional detect, and combine with mercury other remedies appropriated to its relief.

Besides, there are now and then some venereal symptoms which will remain, notwithlanding the increurial course being properly persided in, such as nodes, and swellings of the periodicum—these are sometimes cured by the mezereon decoction, (No. 173.) or the compound one of sarsaparilla persisted in for a long continuance of time, which will be aided much by the warmth of a southern clime. As for other local affections, surgical affections not immediately necessary; for healing up of thenkers, and describing bubbes by too hasty external applications, has often created in schief—cleanliness and day lint, in the first instance, and depending on internal remedies for the sure of both, is by much the soundest practice, and will almost always answer, if the complaints are simply venereal—if otherwise, and they obstinately resist this mode, the skill of a surge-

on may become a necessary auxiliary.

With respect to a salivation, it is seldom, if ever at all, necessarv-however, if it is determined on, before the course is begun, should the patient be of a full habit, it is adviseable to take away fome blood-have recourse to the warm or vapour bath, two or three times, and clear the flomach and bowels with a dole of gentle physic-then let the patient put on a flaunch fleirt-and half's dram of mercurial ointment, (No. 167.) must be rabbed in on the inside of the thighs every evening, gradually increasing the quantity to two drams, or more, if the southitution requires it, 'till a spitting is brought on-and this must be kept up for a fortnight after every venereal symptom has disappeared—the patient should drink plentifully of some diluting liquid, as barley water with gum arabic, marsh-mallow tea, or such like - and persist in a light, easily digestible diet -- avoid the cool air -- and spit from a pint to a quart every day --- the more gradually the falivation is brought on the

If we want to prevent the mercury from laying too strong hold of the mouth, it must be diverted to the skin, by keeping the patient in a constant state of perspiration, from the warmth of the room, by drinking plentifully of warm, diluting watery liquids—or, should be with to avoid a spitting, the patient should take from time to time some gentle physic, or get into a vapour bath—and this mode is thought by some the most adviteable, as by these means we shall be enabled to throw in a

large quantity of mercury—if inflammatory fymptoms occur, we must have recomfe to bleeding, and confine the patient to a low diet, and copious dilution with watery mucilaginous fluids—but should the strength be much reduced, a nourithing diet, with wine, insusion of bank, and some chalybeate preparation, and a free country air, are peoper-

After the course is completed, and the cure performed, the patients should return to their usual modes of living, as has been repeatedly recommended, when recovering from any as

cute difease that has much harranced the confliction.

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SECTION XX.

E now are to treat of discases of the skin-some of which are considered merely as local complaints of the skin itself, beginning in, and not extending themselves farther than that part of the machine; whilst others depend on acrid states of the humours, and are more generally dissure through the habit, putting on different appearances, according to the parts they assect, and very often alternating with those on the skin; so that, on the expulsion of the acrimonious humours, they manifest themselves on the exterior surface of the machine; and on being expelled, occasion internal assections.

We shall, therefore, form this class of complaints into two divisions, after particularizing some, and from thence deduce

our general modes of cure.

And, first, of the

§ I. ITCH;

fo called from the effect it produces. Different are the causes from which this complaint may effe, as the fourty, so called, lues venerea, &c.—but as these couprious are only symptomatic, when thus derived, we shall connae ourselves to the common itch.

DESCRIPTION. This is discoverable by finall spots about the fize of a millet feed, or formewhat larger, which, broken by feratching, form a teab, itch violently—it is contagious, and chiefly affects the hands.

This diforder chiefly begins between the fingers—red, hot veficles, full of acrid ferum, make their appearance, to which, by icratching, dry, rough leabs, attended with great iteling, fuc-

But this, according to the flote of bumeness being more or less in a bland or acrimonious date, par conditioned approximess—heree the spoes, instead of being merely venicles, will have here and there appearances of matter contained in them, especially if the distant has been of any continuous, and the patients very dirty—however, we may in general discover some spots manifesting the true itch, particularly in the places where there is the most warmth, as between the singers, in the bend of the arm, under the arm-pit, in the interior part below the knee.

Children are more subject to it than adolts—delicate habits with fost smooth skins, and a sults more than old people—all which is owing to the softness and moisture of the skin, and quick-

er fentibility of that part in one than another.

The CAUSE is univertelly believed to be, animalculæ in the skin—and, from the idea of this complaint so founded, a number of the appearances is readily and suitable orily accounted for, as why it is attended with itening, why caught by contagion—and

why it returns after fometimes being emed-

The itching is occasioned by there animalculæ irritating the fibres in the places where they are lodged-hence raining a very minute blister, which, provoking us to feratch, is burd, and ferum then occas out and forms a feab--and there satisfied are running under the caticle, or fearfikin, (25.) deposit their eggs in various parts, which, by the heat of the machine, are hatched, and thus the diffeate spreads itself-by contagion, it is communicated either by the animalculæ themselves getting from the affected to the found parton-or from touching any soft substance where they may be lodged-or from the perion receiving some of the eggs upon the carrole, which are rubbed into the increws, and there lay a proper time for producing their young--and probably its return may be owing to the eggs not being totally destroyed in such as were affected, and apparently cared.

Sometimes little preminent fpots, itching and crowding to reather, neither excerated nor feably, will affect the thin, from a retention of actid perfeitable matter, made more actimosious by fragnating in the farell crypter, hollow places this cavities, containing force field, and finell glands, called to base as plants, of the thin act face-thete are called TITTHES SO TERES, then or po, repo, to carry, because they creep from place to place, and, like the former, are only inherent in the part and and do

not contaminate the mass of fluids. -

Their we give as fractions of arapitons from enternal cautes—their hopes the farindinately to all projet.

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Li:

490 iTCH..

But in infants, or the younger class of mankind, the fkin is often eroded with an acrimonious ferum, and more frequently the hairy scalp in the skin, which begins at first to grow moit, with an itching-hence children rub their heads against the pillows, or any other thing they lie upon-when this difease is in its beginning, a rather acid and very nauleous fmell may be perceived-hence some have called such eruptions ACORES, from acer, tharp or four-afterwards the skin begins to grow red, becomes granulous, then they have named it HERPES, MILIARIS, miliary tetter, because the disease spreads and creeps along, and Ipots like millet-feed are prominent above the fkin-others have called it FICESUS, from ficus, a fig, because in the skin the eruptions look like the finall round feeds of a fig cut in two-then is the effux of ferum augmented, which in a finall space of time are concreted into foul leabs, which fometimes are fo thick, that they are penetrated with many very finall apertures, and now permit a somewhat thicker humour to ooze out; but that begins to adhere on all fides to the crust or scab, increasing its thickness, grows putrid, erodes the skin, and there degenerate into deep ulcers, which pour forth an extremely fætid humour; and, as a moth-worm destroys cleaths, so does this the skin-hence is derived the term

§ 2. TINEA,

a moth-worm. It has also been called FAVUS, from its resemblance to a honey-comb—and in English SCALD-HEAD, from scald, scrufy or scabby, and head—when on the head it bears that name—when on the face, CRUSTA LACTEA, or milk scab—indeed they both have been reduced to the same species, and called HESPES PUSTULOSUS, pusualous tetter, and this is considered as the mildest of all, insesting the forehead and temples, but occurs only in infants one or two years old whilst they make use of milk-hence the term CRUSTA LACTERA, or milk scab.

DESCRIPTION. This, to which we shall confine ourselves, begins with numerous little vesicles, or bladdery appearances, sull of an oily fluid, cohering together, at first white, afterwards yellow---these vesicles, dried and shrunk up, pour forth a small quantity of colourless liquid milk, which being dried, forms scabs; and they are either dry, or moist white, or yellow, seldem brown--they itch, from whence the child scratches them off, which, being removed, the skin appears bright, but very often there appears small apertures, whence again slows out a viscid

humour,

Lumour, forming feabs--the difease cured, the skin remains perfect, and free from any defect.

This affection fometimes creeps to the posterior part of the head, ears, chin, neck, and, indeed, through the whole surface

of the body.

Grofs, fat children are liable to be affected with this, who abound with milk, who fuck fat-greedy nurses, full, of milk-it also occurs in children replete with the seeds of the scrophula, (469) not yet making its appearance, or whose blood is visiated with accimony, from the faults of nurses-who are irascible, fond of liquor, scrophulous, or subject to any acrimony of their fluids.

§ 3. LEPROSY.

from the Greek word lepros, asper, rough, because the skin becomes rough with scales-and elephantiasis, from elephas, an elephant, because this disorder creates some appearances in the legs like those of an elephant. From the accounts given by ARETEUS and CELSUS, many have taken the two diseases to be the same, only in different degrees, supposing the LEPROSY more superficial, the ELEPHANTIASIS more deep-scated, calling one the leprosy of the Greeks, the other the leprosy of the Arabians--but modern authors have divided them into different genera, and have given us separate symptoms by which they may be distinguished-however, we shall consine ourselves to the former, as the elephantiasis, though endemic in Egypt, seems totally abolished in Europe.

DESCRIPTION. This is discoverable by hard, thick pustules or tubercles, or dry scales like warts, rather of a reddish colour, affecting the face and hands, without pain, sometimes the whole body, though in the vicinity there is an itching, and sometimes these pustulous eruptions themselves itch also---the skin frequently near them is rather pasty, commonly destitute of sensation, and the legs affected with a soft, pale, and in elastic swelling---tometimes the eruptions ulcerate, and afterwards become scabby--if a number of these make their appearance, it is called

the moist leproly -- if otherwise, the dry.

Sometimes different parts of the body will be covered with dry scales, which are white, and lay one upon the other like the scales of a fish-these are large, and, amongst the people of Asia are surrounded with a red circle; and some have observed, that the cruptions were not only scaly, but smelt like sish-hence this kind or leprofy was called ITCHYOSIS, from the Greek word its thus pisces, a fish.

Now,

Now, the times and leptofy we take to depend upon fome actimorious human diffiled through the habit, and, by the efforts

of nature, deposited upon the skin.

According, then, to the cardes and conflitutional circumflances do we form our indicactors of cure; for having not, in the ITCH and TETTER here recited, occasion to feer any ill confequences to be derived from repelling any humour into the habit, and the causes creating them being merely external, external applications will be fulficient to form a radical cure, at least very trilling affulance will be requilite from internal remedies --- whilst in the SCALD HEAD and LEPROSY, such internal remedies are necessary as will clear the habit of these actionopious humours, by promoting regularly and conflantly fome of the natural evacuations, particularly that of pertpiration and urine, and, at the same time, to supporting the lirength of the system, and especially that of the descrive powers, that foft, mild, nutritious fluids may supply the place of those which are evacuated, and the disposition which the conflitution has to generate acrimony to offenfive may be altered as much as in the power of medical aid to accompi ih --- and indeed the fame modes will hold good in all the varicty of eruptive complaints, unattended with any fever of moment, which are of long continuance, and come under the denomination of land fourvy, &c. and which we have not before Specified.

In order, therefore, to exemplify the different modes, we that proceed to speak of the cure of the four just now mention-

ed-and, first, of the itch, whose

CHARACTURISTIC SIGNS are, pullules, or itching fmall rileers, contagious, and chiefly affecting the bands, from fmall

animalcules irritating the fkin below the cuticle.

CULE. In meany robust constitutions, it may be adviseable to take away from broad, and give a dose or two of gentle physic—then let the skin be well cleaned, by going into the warm bath, and afterwards have recourse to some of the applications, (non No. 17, 1 to 177.)—With regard to sulphur, we must observe, that what is called sulphur vivum is prescrable in these cases as an external application, because, in forming sawers, it loses much of its cheasey—the slowers are also ordered to be taken internally, as it is supposed that some of the aniqualentic might be too deep-seated for the ointment to affect them, hence might they be reached by the streams passing through the skin—indeed, coupled with a little cream of tartar, it makes an agreeable opening and disphoretic medicine.

With the mercurial wash and ointment it will be sufficient to wash or amoint the parts assected, or to rub some of the latter

into the palms of the hands or wrifts---and it would be right now and then to take fome gentle physic, and drink copiously of some aqueous liquid, to prevent the mercury from affecting the mouth.

If the complaint proves obflinate, as it will fo netimes do if it is of the dry species, when boths may be used during the external applications, and small dofes of antimonials. (180) and mercurials. (180) and mercurials. (180) — but there are follow necessary, though they are utiful as activity is a where the actid state of the humours is a concomitant. Notwithflanding mercurials have been advited, and almost always succeed in the case of this complaint, there have been inflances where it has continued, even after the patient has gone through a fallivation—under these circumstances, where mercury has not been essentiations, sulphur is our dernier resort.

With regard to the horpes or tetter, it is coved by topical applications, and of finely kinds as by their fliamlins and aftern ency give firenest, and fir ancie to the part affected, fo that the matter of perfectation is made to pals of freely, and prevented from accumulating on account of the weaker is and relaxed if to of the places wherein the complete manifests itself---of remedies of this fort there are a great variety, such as ink, water of kali, oil from bount paper, rags or wood which is acrid; this is to be diluted with labing faliva, and the put at Aded anointed with it---but the most preferable is a wash formed of ten grains of manisted quickulver dissolved in a pint of water; to-lutions of the preparations of lead, (13%) have been in the milder kind of this different afful and efficiency.

The TIENA, or SCALD HEAD, that species to which we confine outselves, has for its GHARACTERISTIC SIGNS, small alcers in the skia of the hairy scalp, at the roots of the hair, oping out a homour running into a white, dryish scale—when this happens to children otherwise apparently healthy, the body should be kept open with mild aperients, such as magnesia and shubarb, or l'elychrest salt, in properly proportioned doses; the hair kept close cut and short—the parts clean, by washing them with soap and water—and a moderate diet prescribed.

Indeed, it is usually cured by wearing the child, or changing the nutie, whole milk is younger, thinner, and lefs loaded with

oily matter.

Their children get the teeth later, and with more difficulty.-their bowels are codive--- and often there appears a propentity
to rickets--- without the eruption should be imprudently reprited, nothing else is necessary to be done--- but if it should be

attended with an acrimony of the humours, and spreads itself to different parts of the body, a young nurse should be chosen whose milk is blond and well diluted, not rich and thick; she therefore should live on liquid or moistening food; at the same time, if restless, gentle opiates may be now and then given to procure sleep.

Should this complaint prove oblinate, and be attended with great itching, a palencis of the countenance, and the fieldy parts appear relaxed and flabby, here we must have recourse to finall doses of caintach, as an alterative, and antimonial wine, with the same intent, proportioning the doses to the state of the state and bowels, that the one may not purge, nor the other

occasion too constant sickness or nausea-

To allay the itching, the head must be rubbed with oil of fweet almonds—feveral recommend the pitch ointment of the Edinburgh Dispensatory, which I have found esseault-cream mixed with chalk in sine powder—folutions of the preparations of lead, and that of muriated quicksilver, as in case of tetter, may be had recourse to.

In every eruption of tettery kind to which children are liable, of which the feald head we confider one, Mr. Bell afferts, the fulphur, in some form or other, commonly proves the most effectual application, therefore, in failure of other remedies, sul-

phur should be employed.

However, of these remedies I should recommend a very cautious use, because I have seen great mischiefs occur from the injudicious application of stimulants and repellents in some cases, from the idea of the complaint being merely cuticular, borrowing nothing from the habit in general—indeed, so obvious has it been, that soon after the repulsion of the humour, coughs, and sebrite symptoms have come on—uncatiness in the bowels—perceptible emaciation, which, upon the reappearance of the complaint, have all gone off—in a country town, where it was the practice of the old women to cure the seald head with pepper and butter, it very often proved satal.

I should therefore advite that clembiness, change of nurses, or wearing, with the use of gentle purgatives, should be first tried ---if these succeed not, the use of alteratives and antimonials, or the ponderous muriated earth, should be tried for some time, and issues, before recourse should be had to any of the preparations of lead, mercury, or tulphur, then they might be tried with safety, as I have from experience been convinced---and these should be continued 'tall the complaint be totally cured, and the constitution has recovered its usual strength and firmness--when this has been repelled, it has been thought adviseable to endea-

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LEPROSY. 495

your to folicit the complaint back again, if any internal fymptoms manifested themselves, which, it is said, may be done by the application of the leaves of bete to the part originally affected; but of this I have had no experience—it wight, however, be tried, whilst the other internal remedies above recommended to car-

ry off the humour were persisted in.

In the CURE of the LEPROSY, whole CHARACTERISTIC SYMPTOMS are, the skin rough, with white eschais, which have a bigney appearance, and are chapped---sometimes moist under neath and itching--warm baths, a clear pure air, with a thin laxative diet, are essentially necessary-- and also the use of antimonials and mercurials--though a fallivation exasperates this disease, six grains of calomel, with one of camphor, may be exhibited once a week, and purged off with a common purging

draught in the morning.

Dr. Russel afferts, he cured the dry leprofy in the course of a month, by giving a bolus made of the slesh of vipers, twenty grains, and one of camphor, with a little conserve of roses, every night, and the morning following half a pint of sea-water --viper broth, or chicken broth with vipers, has been considered as beneficial---but the greatest success has been attributed to the decoction of the interior part of the elin-tree, (No- 178.) which should be continued several weeks--and should by its use, the efflorescences be augmented, it is a pleasing symptom, as it promises a salutary termination-

We have had instances of this complaint, where the symptoms have put on a high degree of violence, being cured by bark and sassars, (No. 179.) and the application of a stimulant lotion, (No. 180.) night and morning, a perpetual blister being at the

same time kept open between the shoulders.

In complaints of this class I have found great benefit from the judicious use of mercurials and antimonials, intermediately giving the ponderous muriated earth, with the compound decoction of farfaparilla of the Loudon Duspensatory -- to a quart of which I have occasionally added fix drams of Peruvian bark.

Indeed, in all eruptive complaints which are united with, and proceed from an acrimony of the fluids internally diffused, and manifest themselves by tymptoms which bespeak general affections of the habit, or internal local ones, I should recommend the gentle evacuating and tonic plain, on the principles we have specified in the former part of this section; and shall now proceed to speak of some complaints which have been detached from the general arrangement intentionally, and one accidentally omitted.

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SECTION XXI.

§ 1. Inflammation of the Womb.

ESCRITION. This complaint is attended with heat, tenfion, fwelling, and pain in the lower part of the belly-vomiting, the mouth of the womb is to painful, that it cannot bear
touch, and is drawn inwards--there is a continued fever, tometimes of the remittent kind, accompanied with childrens, delirium, tofising about of the body--the head, though chiefly the fore
part, is painful, and also the eyes--convultions of the neck, hands,
and feet come on--the pain extends itself to the groins, thighs,
miduif, and collar bones, affociated with difficulty of breathing
and plentitic fyraptems; --naufea, vomiting, hiccough, coftivenefs---and pain is making water also manifest themselves-

In the beginning the pulse is full and quick, afterwards weak and frequent—to which are joined faintings, coldness of the extremities, drownings, with a number of other dangerous and vio-

Ient symptoms.

CAUSES. The womb may be affected with this complaint form all those equity which are at to induce inflammatory affections in other petits. (See Inflammation, p. 298, &c.)—ob-flucted ments—on any thing which will determine the blood too freely to the nomb, and create an accommutation more than naturally larter is that or as a. But additions have very judiciously divided it into three species—if, Into that which affects lying-in women—2d, That which is attended with a malignant fever—and, 3d, That which deduces its origin from the milk.

In the prest of the is, a suppression of lacking asien precedes the completed, or it is browned on by virtual efforts of the acconclient in a light labour, blows, companion, laceration from the singers, or and allow instruments, remarks of coagulated blood, as i much force elected in reflucing a prolopius, or falling down of the womb.

CLUE. They where only the fyroptor of common communation are the convertional, facts as book thin, bear, training and the pulle full quiels, and earl, blocking mult be trained course to-law entries and produces who patient the are copiously of matery finite-mand to a contrainer, come, and anti-

monta

monial medicines---and, in fine, the method purined as in other inflammatory cases. (See Inflammation, &c.) Besides, here, all external pressure is to be avoided---it necessary, the urine must be drawn off by the catheter, and the rectum, (45.) emoted by glysters occasionelis; ---but if the complaint arises from a suppression of the leachit, and, notwithstanding all our efforts, the pain should continue, opiates may sometimes be given with success; for this may proceed from some spasmodic affections, occasioned by irritation.

THE SECOND most commonly proceeds from internal causes, as putred acrid matter, or a translation or that which creates crylipelas to the uterus, discoverable by a burning treat internally-delirium, black dry congae, and at the same time coldness of the

extremities, with a frequent and irregular pulic.

CURE. Here are required a force who opiness and diaphoretics, to determine the fluids to the aim, and evacuate the offending matter, because there exists from more to depend upon irritating causes than more indummations—the patients, therefore, should be kept much in bod, moderately warm—drink fromly of bariey water, this graci, and these troquently repeated—go occasionally late the warm back—and gentle disphoretics, (100) should be inside a upon, as authmonials in small doses, acctated ammonia, (180, 181.) nitre, (176.) and fucil like.

THE THERD, is an acute febrile directe, attended with a fwelling of the budy—tendon, pain of the womb, third, head-ach, delinium, drynds of the tongue—directed fleep, addrough the lochia flow freely—and this inflammation functions precedes, fometimes fucceeds delivery.

CURE. Here we frould purfue the mode fimilar to what we have laid down in intential indemnation-large evacuations, by bleeding, purging, with distreties, and a thin spare regimenthe milk also should be foliated into the breatls by every possible means, fetting the child early to the breatls, applying cupping gladies, faline raixtures, and antimonial preparations, given

at proper intervals, and the breads kept warm.

With respect to bireding, some have thought it unnecessary, because of the dicharge of the lockin; but in this case a larger quantity by much than what flows in that case is necessary to be taken, that death may be avoided, and the deposition of milk in the abdomen, or a milk absects, may be prevented:—for this disease has been faid to be fatal to many womer—and in opening the bodies of those who have died of this disease, a milky, thin, or grumous matter, to the quantity of a pint, has been educed in the abdomen.

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But if the fever should be moderate, the locals, fwests, and flow of milk into the breasts proper and natural, there should be no twelling of the abdom u-no head-ach, partle andy if there should be a localized and bilious stools, it will be furtherent to support these evacuations by drinkin copiously sold tilln givel --taking oily medicines, and the use of sheathing glysters. See Puerperal Fever (243.)

Is any, from the accounts given of these three species, the indications of cure are plainly pointed out to no. In the first, we endeavour to take of the inflammation by the common mode directed for subdaing inflammatory complaints of other pause is the second, we accoupt to evacuate the acrimony. And in the last, to prevent the coagulation of the milk, or its establishment parts for which it is not defined by nature, by soliciting into and keeping it in its natural reservoirs.

§ 2. MENSES;

fo called from the Greek word, mene, menfis, a month, from that being the usual time of their periodic appearance—they are called, for the same reason, also MENGTRUA, or CATAMENTA—when thele show in their natural state, there is a sux & blood from the vessels of the wemb and vagina, (510) every month—in some every three weeks—they generally sirst make their appearance about the age of sourteen or sitteen—some times of an earlier period—and go off, or cease to slow, about the age of sourteen or sitty—sometimes sooner, if they have made their appearance at an earlier period than common—this disclarge, though very faintary when it slows regularly, and in due proportion, is always attended with diagreeable consequences when it is either too profuse, too desective, or altogether ob-structed.

When the menfes flow too copiously, continue too long, or retern too frequently, is that the machine feels evident include of debility, this we consider as a disease, called

which may activities more rapid circulation of the bland, hence a field as 11 theory out too related a flate of the uterine veriels, then called PASSIVE.

IN THE PROOF CASE, it is generally preceded by head echconsisting the thing, artended with heat, thirm, quick full pulse,
pair of the toiles, often down the thighs—and other febrile fymptoms—in this case we must be exceedingly careful that we do
not attempt to flop the flux of blood too fuddenly, not 'till the
vessels have fusiciently emptied themselves, or that has been performed

MENSES, 499

formed by art—then we are to proceed on the cooling plan, and order such remedies as will abate the too great vascular action, such as we preicribed in cases of ACTIVE has norrhages when on that subject, (389, &c.) such as bleeding, nitrous medicines given copiously, with cooling emuliions, and a spare cool diet, and keeping the body open, is essentially necessary—care should be taken to avoid heat—violent agitation, and exercise, and every mental, as well as corporeal exertion; for these will give too great force to the circulating shuids, and contribute to increase the complaint.

But at the early period of the difease, if what is here recommended should fail of success, small doses of ipecacuanha, (No. 133) or tarrarized antimony, (No. 6, 7.)(166.) sufficient to create nausea, or gentle vomiting; for these take off spasmodic conficient from the surface, divert the slow of humours more generally to the external parts, and hence render the circulation

more equal.

On the other hand, when the face becomes pallid, the breathing is affect d by very moderate exercise—he back feels weak and paintul from continuing in one posture—the pulse grows feeble, the extremicies become unufually cold—in the evening the feet appears pady, and an uncommon wearings from exercise, this disease must be confidered of the passive kind; and so may it also if there are frequent returns of the disease; and in the intervals of the periodic discharge, the whites, which we shall, next explain, constantly attend.

CURE. In this case we must moderate the dicharge, by cold wet applications to the pubes and external parts—ipunge tents dipped in vivegar and water passed up the vagina—the patient avoiding an creek posture as much as possible—lying cool on hair mattrells—by flunning external kext—using a light and cool diet—taking cool adving mt dinks, with attengents, (No. 56. 116.) and opiates in ernally—keeping the body open with gentle aperient, and avoiding every carde of

irritation.

And, in order to prevent a relapfe, we must endeavour to invigorate and give strength to the fyllem, by cold bathing, preparations of iron, and bark, and moderate exercise in a clear cool air.

The diet should be of nutritious kind—and, during the sux, all those things called cordials should be avoided—though in some passive cases, where the slow is almost constant, joined with tome remedies, they may be highly uteful—and gentle exercise in a carrage has been said to moderate and contribute to suppress the tanguinary discharge.

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§ 3. LEUCORRHOEA;

to called from the Greek lenkor, albos, white, and reo, fino, to flow, because of the discharge being generally of a white colour- also Fitter ALP's, white flux-it is vulgarly called the WHITE'S, for the fame reason this is a discharge of serous or mucous matter, femetimes white, or others yellowish, brown-

iff, or rather greetish, from the womb and vagina-

DESCRIPTION. At first this discharge is mild and serous, which atterwards, by not passing freely off, or tia mating, becomes more thick and acrimonious, and will be different with regard to its colour and fmell-indeed, those samploms which we have enumerated as concomitants to a morbid hux of the menfes from a passive cause, generally here attend-and when the discharge is excessive, or of any long continuance, pains and weakness of the loins-indigedion---and other lymptoms of debility---fwelling of the eye-lide -- thick urine---palpitation of the heart--trequent faintings, are almost always constant concomitants;but in the early flages they do not frequently make their appearance to any great degree.

Indeed, the colour and confidence of the discharge alter, from a variety of cheumilances, according to the nature and duration of the diffrafe, featon, climate, and conflitution-in warm weather, gross habits neglecting to keep the parts clean, from quantity or acrimony painful executations are occasioned, infonuch, that femetimes it has been difficult to diffing with it from the effect of some venereal taint - and here it will be necessary to advert to force concomitant circumflances-if a discharge comes on foodenty, with fyriptoms of heat and rain-if it is not attended with weakness or pain in the back-if the patient appears to be of a healthful flrong flamma--- has had no children-no milear lages --- nor fevere or copious flow of the menfor-if the discharge should be thin and much discoloured at first, we may then suspect formething of venereal affection in the cale-indeed, I have known many cured of what they called the whites by means to which a virulent gleet, or clap, most readily yield.

However, the WHITES often occur in women who are subject to too copious a now of the menfes, or have them too frequent-In return, and are hable to this from causes which weaken the selfold of the womb and vaging-or are of a relaxed or debilirated conflication-hence it generally affects women advanced in life, particularly those who have had children, have often miliarried, mentionated irregularin --- also those who lead an inaffive life; there who are full and jolly, and whose folids are

loofe and flabby—the more recent and whiter the discharge, the more easy to cure the discase; the longer the continuance, and the more green or brown the colpar, the more dissipation.

CAUSES. Are all fuch as occasion a collection of ferum, and weaken the vertels of the parts affected, or the habit in general-hence living in moin air-feeding on vited too food, leading a life of indolence--using too frequently warm baths; an immoderate flow, or an obtaination of the mentes; or it may be occasioned by a transition of humours to the womb and

Vagina.

CORE. Now it will appear obvious, as we confider the nature of the disease, whether local or general, so must we adopt our remedies, whether it depends upon the relaxed state of the vessels of the womb primarily and principally, or we attribute it to the debilitated state of the system; in the former, we may place much dependance upon external applications of the astringent class; in the latter, some medicines internally should be exhibited, which will not only give strength to the constitution, but contribute to maintain it in that state—hence, then, according to the different circumstances of the constitution, we must regulate our modes of cure-

When it occurs in those who live fedentary and indolent lives. indulging in luxuries, and supporting themselves by a full rich diet, by which the habit will be loaded with grots humours. their mode should be altered to a diet which is more sparing, and a cooling regimen, having frequent recourse to purgatives, and a more active state of life; but to those of a more weak, relaxed flate of folids, we must invigorate the constitution in the same manner as directed in too copious flow of the menses from a pathive cause, (500.) --- here it is of great use to keep the parts clean by frequent partial baths of cold water; and after gentle evacuations, in those who have lived indolently and luxuriondy, an advingent wath of the gentle kind may be made nfe of, fach as the rettringent injection, (No. 165.) with the addition of eleven cances of infusion of roles; in those of relaxed habits, injections of bark with alum, alum water, infulion of tornmentil roots, with lubarge water, or some such attringent preparations; for they are faid to diminish the discharge, and, in recent cars, entirely remove it.

Sometimes from a long continuance of this disease, the humours are apt to be acrimonious and irritating, and assist in supporting the discharge; then hartshorn jesties, or those of isin-

gtais, are agreeable and ufeful auxiliaries-

Sometimes there friendlants which act upon the urinary parages, and communicate their effects to the womb and vagina,

have been thought beneficial in these cases; Spanish slies in tindure, joined with some of the preparation of iron, and bank, have produced good escents; ballom of copaina; ballom of turpentine, and those of this class, have been considered as useful.

But, in cases of long flanding, I have feen much banefit derived, during the use of aftringent medicines, from a flimulating plaiter or bifler applied to the region of the factum, or

lower vertebræ of the back.

If the complaint proceeds from, or is supported by a vitiated state of shids, that should be corrected by the use of antimonials and mercurials, taken for some time, with a decocion of the woods in line water; and in this state of the constitution issues are extremely serviceable; after this conste, local applications and astringents increasely bid fair to produce those good effects, which they fail of doing without such an alterative plane

of 4. We are now to treat of the mories in a different point of view, where they are circux retained, farprefil, or firm with difficulty, and there are all comprised under the term AMENOR.

RHOEA, from the Greek a, aipha, non, mens, mentis, month.

and reo, fluo, to flow.

THE FIRST OF THERET, OF THE RETENTION of the menfes, happens in women arrived at a flate of puberry, in whom, after the usual time of their first appearance, they do not now manifest themselves; and when at the same time there are various affections, showing the machine to be in a state of difcase.

THE SUCOND, or a SUFFRESSION, in adults, in whom the menses, which have been accultomed to flow, are flopt.

THE THIRD is where they do flow, but too sparingly, attend-

ed with pain-

Now in the fift of these, that disease, CHLOROSIS, from the Greek kloros, viridis, green, or pallidus, pale, from the colour of the countenance, called here the GREEN SIGENESS, is induced.

pallid or yellowish countence, unaffociated with any yellowish of the eyes, like that in the jaundice—finall and weak pulle, at the fame time languid, a want of alertness in motion, with luffitude and debility—the patients are affected with naufea, vomiting, often throw up wind, and have pain in the flomach—and, though they want appetite for common food, have a defire for fuch things as are not used for food, as chalk, flates, or other abtorbents, green fruit—they are coffive, and have other tymptoms of indigetion; the whole body is pale and flateid; and the feet and great part of the body become patly—by quick

motion, particularly going up stairs, or climbing up hill, the breathing is laborious—palpitation affects the heart—fainting—formetimes a pain or giddiness in the head comes on, but more certainly pains of the back, loins, and hips. Now these it appears are among the certain figure of this distaic, when advanced to any confiderable degree; redeed, in the earlier stages most of them prevail, but not to that excess.

As the mentes appear at dimeent ages, we must not file a person distance because they flow not at a given time...-but, if, after the common time has dispitel, there appear evident figure of indifficultion, such as we have recited in their inferior degree, and less numerous, we need not helitate in pronouncing the retention a disease.

CAUSES. A debility of the full or in general, bringing on a final ribuse in the velicit of the wamb, whence a central barguid and local merme circulation, escaleding the recales to be retained.

Clucia. The indications are, to firm then the fottom, and promote the action of the vollds, perdealed indications of the wonds.—and their redone ching by both, commonly root, and fact like, joined with preparations of the and bitters—the patients ought to live on a generous ciet, so into the cold both and after exercise—their wait invivorate the condition—afterwards, adoptic program are not interval water—taked, all those purgatives are of ferrice which llimulate the restum, as aloes, thin both, black heliciture, and othered; for they communicate faultar of lets to the well's of the womb.

Buttering the lover part of the back, or filmulating plaisters

spolled there, may be advantageously recommended.

a nime and classicity side fair to be of great fervice.

The second strains or suppression of the menter rifes from the circuit could, from four realisate in the extraction of the countries of the countries of the countries of the four forms to be the pentral craise, as it distors it can be considered to be also said, as it distors it can be considered to be also said, or follows, or for each of finite, and the comparing of the pentral craise, as it distors it can be considered to be about the mental craise of the first of t

Hance, we are not to confider this as a differfe, without it is attended with fome morbid fymptems, fuch is periodic Asnes of blood from four other parts, as from the moir, eyes, ears, intefrines, flomach, large, See which will forgetimes occur in cases of Suppression, hyderic symptoms, cofficencis, frequent colic pains; for these in this species are very often componitants.

CURE. The indications of cure here are, to take off the spalmodic constriction on the uterine vessels, which we attempt by that class of medicines called emenagogues, or promoters of the menfes (18%) amongst which I consider fabine, (149,

150,) as the most certain.

However, it is often fufficient for the parent to keep quietavoid cold, and irregularities of dict-go into the warm bath, or fit up in a half bath, or let fleams of warm water be directed to the womb -or warm fomentations may be applied on the lower part of the abdomen, round the bips, and the tops of the thighs.

But we must observe, that these applications are only to be had recourfe to at the time when we exped nature would have made her efforts in a healthful flate-and in some cases the patient will feel fome fumptoms fimilar to what usually marifelt themselves before the coming on of the mentional discharge at each period -- it is then we fould attempt to south her, as most likely to be fuccessful-but should the discase not visit to these applications, the remedies advised in retention of the menter, (50%) may be tried, particularly abortic purges, electricity, and antibalmodics -- though here we should be caution, in the use or tonic remedies and cold bathing -- we thould rather depend upon fuch as were more relaxing.

This complaint is very often brought on by other differes of the conflication, and then is only fyraptomatic, to cure which we mail advert to the cause, of whatever nature it is, and apply

our remedies accordingly.

THE THIRD SPECIES, or painful membruation, generally affects the whole fythem fympathetically, and the parts which lie contiguous to the womb, producing pains in the loins, hips, and down the thighs ... wandering pains of the lower part of the abdemen, of the head-occasioning also pain at the flomach---giddirects of the head, frequently fickness and setchings, a number of hefterio from teme, and tometimes epidemio his -- and other nervone fyraptoms, netwithdanging the mentes continue to flow for fome time.

This shierle Chieffy & Folls virages, who are of full habits, and thefe who are labinious, and is supposed to deduce its origin partly from the weaker action or the vesicle of the wimb; and, perhaps, more particularly from fome spasmodic affections of the

extreme veffels of that organ.

CURE. Pregnancy, for the most part, performs a radical cure; but the symptoms may be alleviated by what has been recommended in a suppression, (504.) made use of some days before the coming on of the menses—to which are recommended drinking every night before bed time, and in smaller quantities through the day, of any mild watery drink, a little warm, as balm tea, thin gruel, barley water, or such like, or slight insusions of mint or pennyroyal—frequent lying in an horizontal polture—or giving occasionally a spoonful of oil mixed with twenty drops of tindure of opium; or opiates, where oil is disagreeable, by themselves.

5. THE MYSTERIC DISEASE, GALLED HYSTERIA,

from the Greek usteros, uterus, the womb, because the ancients imagined it to be a complaint proceeding from an affection of that organ--respecting the cause of this disease there have been a variety of opinions, we shall therefore proceed to the description, and from thence endeavour to point out what appears to be the most probable source.

DESCRIPTION. In this disease there are many symptoms observable which spare no part of the body; for the head, lungs, throat, belly, and many of its contained parts, and the extremities, have different appearances manifested in them, besides

more general affections of the whole machine.

With respect to the head, there is an oppressive pain, or sense of heaviness of the forehead, temples, and eyes, attended with an essuance of tears--a torpor or dullness of the senses and mind,

accompanied with a diffelish of all things.

Afterwards, those who are seized with the hysteric disease have, for the most part, a very costive state of bowels, a strong propensity to make water, which they do in large quantities, and then it is clear like water---and this Sydenham considers as a certain symptom--they have also a suppression of breathing, and

at the same time a languor of the whole body.

After this, great weight and pain are felt in the loins, and alfo coldness succeeds—the belly is hard and inflated—afterwards
the havel is retracted, or drawn inwards towards the back, and
then a certain kind of globe, or ball, is perceived to ascend from
the lower part of the belly—by and by the heart begins to be
affected with palpitation—and the pulle i irregular and
hard, fometimes inte mittent—the extremules grow cold—
there is a sense of strait sets in the throat, as it the patient was
strangled with a rope, the face becomes pale, the breathing very
difficult, the voice fails, and the beating of the arteries are scarce
any longer perceptible—but so great is the stricture of the belly,

2 3

that

that neither any wind can be transmitted, nor a glyster-formed times there is a vomiting of extremely four materials, or green bile.

In some, so great is the violence of this complaint, that the head and limbs are seized with strong convulsive motions---the trunk of the body is wreathed too and fro--and commonly the hands are clinched, and with one the patient beats violently upon the breast; sometimes though the hands continue open, others tail into a found sleep, and lay without sense or motion, in some the successful neck are instanced with blood, look red, and the arteries beat strongly.

Some fall into immoderate fits of laughter, or of crying, which now and then alternate with each other very quickly; and, when the voice is reflected, talk incoherently, have falle ideas, and whim-

fical imaginations, and fome degree of delirium.

However, though this is the general mode of proceeding, we must not expect to meet with a lathese symptoms in the same person; for the sits are varied in different people, and even in the same person at different times, both with respect to the numbers of symptoms, their degrees of violence, and length of time the sit continues—but whenever it remits, and begins to be mild, which often happens in a certain period of time, then the pulse, which was before weak and languid, and scarce perceptible, becomes more vigorous and softer—heat returns into the extreme parts—the sace contracted and pale in common, becomes full and more red—the noise of wind is heard through the superior parts—and rumbling founds arise in the belly—and at last, as if waking from a profound sleep, the patients regain their voice, sense and dailness of the whole body, legs, and feet.

Now it appears wonderful, that often in a very flort time these violent symptoms, which threaten almost instant death, should intermit and scale, so that the person who the day before appeared as if dying, should now seem to enjoy persect

health.

CAUSES. From what has been above advanced, whether we advert to the nature of the symptoms themselves, the mode of attack which in some cases is sudden, the appearances of recovery, or the slate of the machine immediately afterwards, we scarce can behave to pronounce this disease arising from strong nervous affections, owing to the great incitability (27.) of that system.

And as even those authors who attribute the cause to the womb de allow that it attacks even men, though much more tarely than women, we cannot suppose that it is to be attributed folely

to

to the morbid affections of the womb, though this may be one of the principal fources in the more delicate fex--we therefore conclude, that the conflitutions subject to this malady have, for the predifpoling cause, great incitability of the nervous lystem, either from their birth, or created by some accidental circumflances occasioned in the habit from other diseases, indifferetion, or fomething of this nature; and that, as it is united with a greater or less degree of vascular irritability, (27.) in the whole, or some peculiar part of the constitution, so will the essed be different in different conflitutions, or in the fame conflitutions at different periods-and as the brain has a general communication and connection with every active part of the body, however minute, by means of the spinal marrow and nerves; and as it does act, and can be acted upon, fo as to produce general affections either from itself, or from other parts which are primarily affected-and as its connection with the vilcera is extremely great, particularly with the stomach, bowels, womb, and genitals—and it is also liable to have its powers exerted by mental affections, we conclude, that the hytteric discase may be occasioned by primary affections of the brain, and different causes exiding in different parts, and have a variety of its fymptoms dependent upon fympathy. (57.)

We would therefore fay, that the hysteric disease is a nervous affection, arising from too great incitability of that system, attended with discrent degrees of irritability of the valualar system and muscular shores, occasioned by some things inherent in the viscera, or genitals, or from strong mental action, having for

CHARACTERISTIC SIGNS, a rumbling noise in the abdomen—a sense of a globe or ball rolling about there, ascending to the stomach and superior parts of the threat, and producing an affection imitative of strangulation—prosound sleep, convultions, a profuse and copious discharge of simple urine—and the mind not spontaneously various and mutable.

This complaint is liable to be brought on by various causes-from a retention or copious flux of the menses—from too great evacuations, whether by bleeding, vomiting, purging, or abilinance—from the whites being confiderable, or of too long standing-from the neglect of accustomary evacuations-federary life, obstructed viscara, from viscid, acid, statulent diet-from desect of the stomach-from too great falaciousness, or from too strong and painful mental affections.

CURE. The indications of which confid in taking off the convultive and spatial of affections, and allaying the indicate

lity and irritability of the nervous fystem and muscular fi-

In order to mitigate the violence of the fit, fætid and volatile fubilances should be applied to the nose, such as tincture of asafærida, spirit of hartshorn-æther also is serviceable, and rubbing the temples and nostrils with vinegar-the smoke of burning seathers applied to the nose is esteemed an efficacious remedy; for by these means women oppressed with deep sleep, and lying as if apparently dying, have recovered, and soon returned to themselves.

In women with child being thus feized, a compression made with a rober at the lower part of the belly has afforded speedy relie!—and as patients subject to this disease are apt to be costive, g'ysters made of rue, wormwood, or chamomile slowers in decoction, in which is disolved a spoonful of salt, should be given, or if there is a difficulty in passing, pure expressed oil may be administered in the same mode.

During the fit of on its near approach, or in the intervals, antify fixed as may be had recourse to, a variety of which have been recommended by different authors, as valerian, costor, camphor, spirit of variolic action, as fixed as a variety of which have been recommended by different authors, as valerian, costor, camphor, spirit of variolic action, as fixed by and option, (152) these may be given in different forms, as recable to the with, or the particular state of the patient, in which they are to be administered in the sit liquid forms are only almissible—and here I must observe, that where the sectids have been in forcious, I have found the odoriferous answer—of the strong said: g forcids, I give alastectida, (No. 68, 181) with the calcium juley, (No. 32, 33.) or camphor, (No. 69.) of the sweets, I prefer musk, (No. 31, with 22, 34) but of these, according to the exigencies of the case, so do I proportion the dose.

But as opium is considered one of the most powerful antispalmodics in many diseases, and acts by exerting its sedative power, it must be observed, that when the disease depends upon the fullness of the habit, and requires bleeding, opium is likely to be pernicious, by promoting accumulation in the system, and weakening the circulatory power of the vessels—but where there is no fullness or insammatory state, and the disease seems to depend on irritation and increased incitability, perhaps it may be the most effectual remedy.

Notwithstanding this opinion is supported by very great authority, I cannot avoid giving, in many cases, musk the preference, particularly if there is any torpor in the vascular system or muscular sibres, which we shall explain more fully when we speak on the hypochondriac disease; but then it should be ad-

mini-

ministered in tolerable large doses, from ten grains to half a dram and upwards—moderate frictions about the pit of the stomach, and on the feet, are beneficial-

Sydenham, who has paid great attention to this diforder, fays, that it comprehends two thirds of the chronic affections afflicting mankind, advices bleeding and purging—and this he speaks of generally; here I must beg leave to distent; for without the constitution is loaded with blood too much, they do infinite distervice—there are few who can stand either the one or the other without manifest signs of an increase in their disorder; hence, when either are necessary, except in cases where the fullness of the vessels is very considerable, cupping and mild aperients are preferable; and, if required, they may be repeated, but with the greatest circumspection; for bleeding and purging in any other mode emoties the vessels suddenly, and too copiously, weakens the system too powerfully, and universally aggravates the symptoms.

Indeed, fome hysteric patients cannot bear the mildest purgatives, not even glysters, without experiencing great inconveniences, having their spirits immediately depressed upon any common evacuations downwards. I have often seen hysteric

fits forceed after two or three loofe stools.

After the fit is got over, we must next endeavour to prevent its return, by alleviating the incitability of the system, and this is done by giving arreagth and firmness to the constitution, as in other nervous cases, for which many remedies have been advised, as mistere of the oak, leaves of the orange tree, Peruvian bark, bitters, with preparations of iron, arsenic, mercury, and ammoniacal copper; of the three latter I cannot say any thing in this disease; but in very obstinate cases a trial of them has been recommended—of the two first, they appear not so effectual as the bark, bitters, and non—of several which we have here set down; see the account. (400.)

With respect to the back, a scruple or two taken night and morning has been said to produce considerable benefit; where habits were delicate and relaxed, without any fullness and inflammatory tendency, and free from viceral obstructions, perhaps it may--but under these particular circumstances I consider it detrimental, which conclusion I draw from experi-

ence.

Preparations of iron united with bitters I have generally found most effectual---the effects of the former, and its most eligible preparations, are pointed out, (p. 228.) and the different formulæ of steel and bitters may be found, (p. 239.) and to the draught, (No. 63.) it is useful to add about thirty drops

drops of spirits of vitriolic ather—the body should be kept open by moderate dotes of some aloctic pill—lut in all cases it is necessary to take care that there is no sanguinary fullness or

inflammatory tendency in the habit.

Where the constitution appears to be of that nature, the full-ness should be kept under by moderare living, gentle exercise, particularly on horseback---and, as having too often recourse to bleeding is apt to occasion an increase of blood afterwards, in order to keep the folids and sluids in a healthful state, with respect to their influence one upon the other, setons or issues are proper-

It is also necessary to attend to the alleviation of the patient's mind, advising change of scene, cheerful company, and the avoidance of such things as raise sudden commotion of the spirits, or depression---a clear country is highly beneficial, and all such things as assist in keeping up the proper tone of the sy-

stem-

6. Hypochondriac Disease—Hypochondriasis,

from the Greek upo, fub, under, and kartilago, cartilage, from producing its effects, and exercifing its violence under the cartilage called enfiformis, (39.) chiefly, and also under the lower

rib of each fide the cheft, called hypochondres.

DESCRIPTION. As in the hysteric, so in the hypochon-driac disease there is no part of the body, no function, which may not be injured in this of long continuance, and be essented precernatural, and the symptoms so violent and so numerous, that the whole scarce comes within the power of description---hence, as sever is a disease which may be considered amongst the acute cases the most universal, so amongst the chronic may be the hy-

pochondriasis.

In the beginning, a violent tension of the stomach and bowels are perceived, and statulent instations under the short, or spurious ribs, particularly on the left side; there are also nausea; louthing of food--aed an uncertain appetite, sometimes totally gene, sometimes voracious—the food taken is digested with dissibility--sour and visicid crudities are generated; an oppressive weight and pain in the stomach particularly succeeding eating; spasmodic constriction of the threat, with frequent rejection of a clear mucus from the month; dissibility of swallowing; heat of the stomach; sour belchings; frequent efforts to vomit, and sometimes vomiting itself, wherein materials so actid are rejected, that the teeth have had a kind of stupessactive sensation, vulgarly called "setting on edge," and with which cloths have

been

been not infrequently corrolled; indeed, vomiting of fatty materials have been observed; besides, in the track of the intestines, acute, pricking, or sharply derting pains are perceived about the navel; sometimes the bowels are very lax, sometimes most obstinately costive, with a retention of wind, which passes either upwards or downwards, and alleviates in a slight degree the other assections; but by and by returns with greater violence; though, on the contrary, they are oftentimes seized with frequent estarts of going to stool, and tabercles, or what are stilled in the blind piles, (400.) belet the anus, (43.) also bleeding ones sometimes succeed—sometimes the patients make water with difficulty and pain—the unine itself thin, dilute, and pale, sometimes with a large sediment, and that gritty.

Nor is the belly the only part experiencing severe distress, others also suffer by consent or sympathy (57.)---the head is much affected, in whose external parts, those called CLPHALALGIA HEMICRANIA, (346.) and various dragging pains, joined with immobility, are perceived, and that known amongst medical men by the name of CLAVUS, from clavus, a nail, a fixed pain, not exceeding the breadth of one's thumb—in the interior, giddiness—ringing of the ears—with a difficulty of hearing, manifest themselves—a dimbers of tight; sometimes double vision affects the patient; the eyes become painful, with dryness; and very often in a certain space a burning and very troublesome pain seizes the tongue---and the faliva flows so very copiously, that hypochondriacs are called SPUTATORES. (158.)

At length the animal functions begin to fail---the mind rouzed by no cause, at least by that which is extremely flight, to inquietule, auxieties, forrow, anger, fear--becomes incompetent—inclines to vain and perverse imaginations---the power of memory dies away, and reason fails—sleep is disturbed, turbulent, and replete with terror---in the breast great straitness, constrictions—violent difficulty of breathing, joined sometimes with fullness of the chest--tremblings and palpitations of the heart occur-

Now, from these symptoms, it appears very obvious, that this disease is a nervous affection like the former, though we consider this to be somewhat different, and to depend more unon a torpidity of the nervous system, than too great an incitability; and have the local incitability manifested in different parts, brought on from the continuance of the complaint.

For we must observe, in its commencement the figns of great torpor only make their appearance—besides, the disease foldom appears early in life, and more usually in those advanced in years

only,

only, and is apt to attack those who lead indolent and sedentary lives, are much addicted to study, and deep thinking, and oppressed with those particular mental affections I have called saturnine, (79.) for these are apt to weaken and blunt the active powers of the constitution, render the circulation and nervous influence weak and fluggish—and, indeed, some medical writers have almost wholly attributed this disease to a state of mental affection. Besides, their symptoms in winter, autumn, or any cold weather, are always more violent—but, on the contrary, in warm, and in the fummer feafon, hypochondriacs are more alert and vigorous; and in women afflicted with this disease, it is always increased at the time their menses ought to flow; for they, for the most part, labour under some defect in this point-add to this, hypochondriacs can very rarely be affected with continued, epidemic, or infectious fevers-to the plague though they are liable-fill remain free from many other diseases which reign at particular times; for, from the torpid state of ther nervous fystem, the nerves become incapable of feeling the effects of the morbid particles which get into the habit, and therefore these particles are permitted to pass through the machine without creating any disturbance—the same happens to melancholic, but not to hysterie people:

CAUSES. The remote or inducing are, befides those specified above, too long continued watching---hard drinking---irregular diet—natural predisposition---or whatever may give rise

to nervous disorders in general in such constitutions.

CHARACTERISTIC SIGNS. An affection arising from too torpid a state of the nervous, and want of proper irritability of the vascular system, attended with languor, sadness, and fear from inadequate causes, affections of the bowels and stomach, and mental despondency.

CURE. Our remedies must be of two kinds, corporeal and mental; for our indications are, to remove the affections of the stomach and bowels, increase nervous incitability, and vascular irritability, and properly regulate the last, and alleviate the dif-

treis and uneafiness of the mind.

As little can be expected towards performing a radical cure, when the disease is once fixed, as it very often originates from the very formation of the constitution, and depends so much on the state of the mind, we must attend to such things as will alleviate bodily distress, so that no imperfection in any part of the machine shall contribute to increase the uneasy symptoms.

It is therefore first adviseable to unload the intestines, with a glyster, or some aloetic medicine, (No. 108.) after having procured

Lared two or three copious evacuations, then let the Comach be cleared with a vomit, (No. 11, 12.) either will answer the purpole, or white vitriol, (168.) if activities prevail in the flomach, they should be corrected with alkaline falts, (191.) chalk, &c. (101.) (No 42, 43.) particularly calcined magnetia, or spirit of fal ammoniac with quicklime, as they unite with acid, without termentation and creating any wind; and in this cale acefeent vegetables, (100.) thould be avoided -- though leavened bread and vinegar may be taken with animal food, as the least prejadicial; for felely it could not be perlifted in, without contributing to corrupt the flate of the blood, (74.) tenfaceous animals, or theil-fith, (177-) are proper viands with this intent-if we want to contribute to keep the body open by absorbents, the vegetable alkali, (1911) or magnetia, must be employed-if that is unnecessary, or a check is to be given to any evacuation of the bo seis by thefe mans, chalk, crabs eves, or other fimilar abforbents, (191) or the volatile all. all, (191.) must be exhibited -not any of which though must be employed in fuch quantities 28 to ally to defroy the acid necessary for the composition of animal fluids for the purpose of nourishment,

In ones of colliverers, we should confine entirelyes to finell dates of the abortic pith occasionally. (No. 105) fuch as will gentry it to the body open; for these after the operation, are not are obtained the body in a costive state—thubach, therefore, should be exceeded, and the common faint purgatives joined with antimornals—after these things are chilied, we must consider what are likely to prevent a return of this supposes.

Should the florage be relaxed, as is formatimes the cife, though not alway, we mult ordeavour to give it increase of power, by invigorating and thengthening applications, as the vitriolic acid. or that of her fall -alc) ta, waser, fixed fall amm miac, or water of acetated ammonia; thefe are faid to thimulate the flomach, and often increase the appetite - in this diferile the fixed ammoniacal ralt has been of fingular efficient, by the daily use of it in doles, just what would reaster the bayels lax-after taking it fix. eight, or twelve months, the cold bath has completed the curearomatics, as cinermon, ginger, pepper, narmegs, rioves, and other fub canees policifed of the train decrees of nongency; their are excremely eleful, particularly a the florach is very toroid, or much relaxed -the vis that or an for feering the effect of tonic medicines, as well as increase its temporary action-on which account, volatily tasts of vertifiers, or a amon a prepared, are well calculated, and with tonics are very properly conjoined -bitters alto are very afetal, as a mila wood, columbo, orangepeel, gentian, chamomite, &c. a d meir proparations, either in 35143 infusion, inclusion, tinclure, powder, or extract—but we must not persist in the use of any of these too long, lest they should hurt the tone of the stomach by their long continuance, which they art apt to do.

Bitters and affringents united are faid to have more efficacy than either separately-bark, therefore, as possessing these properties, has been highly extolled; but the same caution is here ne-

ceffary, for the farme reasons.

The best remedy for producing the defired purpose in this case, and what may be continued the longest with the greatest falcty, is iron, and its preparations-the fleel waters have been recommended, and often proved fuccessful --- but on these Dr. CULLEN makes, though a minute, a very judicious remark, and fays, though in the hypochondriac disease chalybeate waters have formerines been apparently efficacious, he imputes it more to the anuscement and exercise accompanying the drinking them at the fountain head, rather than to the tonic power of the fmall quantity of iron they maintain -- perhaps the elementary water favouring the excretions may have a share in alleviating the difcale--and it is for the fame reason, probably, that these people are relieved more by drinking tea and coffee than those who labour merely under indigettion, and also why the warm bath is preferred to the cold in the former cale, and in the latter prohibited.

If the mind is haraffed, or in pain, and flatulence, attended with head-ach, a flight opiate, joined with a cordial volutiae draught, may be given, as from five to ten drops of tincture of opinm, with five or fix grains of falt of hartmorn, in a little perpermint water, may be given; but opiates should be very sparingly used—in spaintedic affections they may be used also in the same manner, coupled with asafectida or musk-if the pulse should be quick, and there should be a perceptible severishmes, aromatics and steel must be omitted, and exchanged for bark and the vitriolic acid.

We should be particularly careful that the patient should be thrown into such situations, as to keep his mind in a state of cheerfulness, in order to its being drawn from those unpleasant renections by which it is diffurbed, particularly such as lead him to brood over what he considers an irremediable calamity, his ill state of health—lesions of philosophy and reason are of little use, if any, it is momentary; for the first crudation or pain, however triking, overturns the strongest arguments that can have been advanced, and he reverts back to his usual despondency—nor can patients of this fort bear raillery, not any thing is to them so offensive, they consider it either as ignorance, or

the

the want of humanity, and will form most unconquerable dillikes to those who use it.

Cheerful company will be found always beneficial, and any exercife in the open air that requires dexterity, for their amote the mind-as to exercise, riding on horseback, or driving a carriage, is the most eligible; but, if it can be afforded, taking a long journey, or going from one watery place to another, crains the preference; for variety of objects are perpecually and a jug the attention, few of fettled dignit are prefenting then de si; and constant exercise employs a good deal of his time, and neals him as it were from himself; and by these means he and lead at least a life of comfortable fatisfaction, fancying he whole good he has derived from change of air, which will encourage him in the purfuit; in fine, whatever is directed to him mould be capable of furnishing amusement, and never carried to excess: for fatigue of every fort is extremely detrimental- his diet mould be light, at easy on the stomach, agreeable to the palate, consial, nourithing, and easy of digettion --- animal food is in general the most proper-and his drink should be spirits, which he likes best, lowered with water.

I have, in the course of practice, met with some cases extremely perplexing, where symptoms declaratory of both hyderic and hypochondriac affections manifested themselves---hence I have ventured to call it the

9 7. HYSTERIA-HYPOGHONDRIAC DISEASE,

as participating both of one and the other, which, as it has oc-

curred to me, I shall take the liberty to describe.

DESCRIPTION. In this complaint patients chiefly coraplum of heavy, uneafy pains in the head, iometimes fugitive and acute—a dimners of fight; but this temporary, a follow of ftrangulation, ringing in the ears, and quickness of hearing --fudden starting at any slight noise, on the opening of a door quickly, or any thing falling in the room-fometimes they have complained of a coldness of the head, particularly the back part, as if water was trickling down it-flatulence of the flomach and bowels-- fometimes they are coffive, now and then otherwife--urine is made frequently, in small quantity, then becomes turpid; at other times more copious, and of an amber colour, icidom or never purely limpid --- they oftentimes complain of an itching, tingling, or pricking in the fkin, especially if a gentle is acat is promoted --- fometimes an eruption like the nettle-rath flows ittelr--frequently a general tumefaction, of a puffy alport, without any spots -- at others very small vesicular cruptions at the tips of the fingers; and all these external appearances are, for the most part, attended with great heat, itching, or a sense of pricking,—the appetite is very irregular—the mind easily disturbed, and generally brooding over some personal calamity, chiefly imaginary—the circulation sluggish and languid—the pulse flow—and the extremities, for the most part, cold.

CAUSES. These appearances I always suspect from some acrimony subsisting in the sluids, and thus lar practice has confirmed my opinion, enables me to reason on these appearan-

ces, and reconcile them to the doctrines laid down-

For the incitability of the nervous fystem seems to have been kept by the stimulus of the acrimonious humours, which was not sufficiently powerful to increase properly the action of the valcular system—hence the internal parts would be loaded, and the acrid particles have a power of exerting their stimulus in proportion to the quantity retained—besides, from the torpid state of the circulation, the acrimony would be greatly increased by the retention of such materials as should naturally have been thrown out of the habit; and this I am warranted to affert from what occurred on any eruption appearing on the skin, or hot tumesaction of the extremisies, or by gentle sweat being promoted; for at that time the patients were more considerably relieved.

CHARACTERISTIC SIGNS. Quick nervous incitability, united with strong mental preposiesion, and persuasion, of the patient's own minery, and satality of their situation, with tor-

por of the vascular system.

CURE. The indications are, to render the nervous influence more equable, and take off the vafeular torpidity; and there are chiefly accomplished by cordials, aromatics, and simulating antispatimodies, by promoting a determination of the fluids to the surface.

But, notwith landing gentle perspiration is not singularly neful, for this purpose antimonials must not be exhibited, nor nust opiates for alleviating spasmodic affections, for they very often do infinite mischief, by relaxing the stomach, and increating the torpor of the system—stimulants are better, and still more the stimulating antispasmodics; such as volatile alkali, asafortida, musk, given occasionally, and the volatile saline mixture intermediately, joined with cordials, instead of the Polychiest salt, (No. 126.)—(of these see the different formula, from page 231 to 235.)—and I have often found the spirit of vitriolic other and camphor answer every good purpose we could expost from opium, without producing its disagreeable consequenres—the warm bath in these cases is beneficial.

Though it is necessary to have the body kept open, frong purging always does harm-occasionally the aloctic pill, (No. 158.) with or without the calomel, may be given -- and as for ble-ding, we should rarely, if ever, have recourse to it-if it is ever thought necessary, cupping is the best mode-perhaps topical bleeding with leeches may now and then be uteral in fixed local complaints of the head, or other parts where fevere pain gives much unexhack; but, in order to keep off an increate of blood, I should recommend fetons or issues-riding on horteback, and that conflantly perfevered in, is among it the most certain remedies--- and bitters, with preparations of iron, or in fome cales without them, generally must close the cure---the Bath waters are extremely uleful ... and, when patients have recovered thrength to bear the cold bath, that may be had recomfe to; but care must be taken to proportion the coldness of the water to the power of the conflictation, for baths too cold are highly injurious---indeed in our medical conduct great nicety is required in these complicated cases, in which we must obierve, that the remedies recommended in the hyfleric and hypochondriac directe must be felected, as the complaint verses more to one than the other .- upon the whole, I found analyalanodies and flimulants to be the most efficacious auxiliaries; the former when by tierie, the latter when hypochondriae fymp. toms were the need predominant; in which last they may be freely used; for it is allowithing in how large doses stimulants may be given without injury, and how very necessary they are to produce any good effect.

§ 8. INDIGESTION, CALLED DYSPERSIA,

from the Greek words dys, distinulter, and pepsis, concoctio, digention.—If we consider what has been said of the stomach, and as necessary (20, &c.) it will obviously appear, that it is liable to a variety or complaints, such as inflammation, ableefs, u'cer, scircholity of the lower oritice of the stomach, and a variety of oriets—indignation is then said only to be considered as a symptom—indical, it may always properly be considered in this light; for where there is a defect in any of the digestive powers, (inc pare 72) this complaint occurs—and if we consider what has been advanced, when speaking of pains of the stomach, the hysteric, and hypochondriac distate, we may form a tolerable certain opinion of its cause, which generally proceeds from a weakness and speaking of the stomach and bow-21s, and which cause we much consider in this place.

DESCRIP-

DESCRIPTION. Under this circumstance, there is a want of appetite---naufea---vomiting flatulent diffension of the flemach, with emetations either four, rancid, or some other, agreeable to the nature of the imperfectly digested, or indigestible materials contained in the stomach---cardialgia, or heartburn, (352.)---pain also in the stomach, attended, for the most part, with a costive habit---this disease will also very often produce the sick head-ach, as proved by experience. Dr. Fother-Gill says, "from numerous circumstances it is most clear, that this head-ach proceeds from the stomach, not the reverse, as has been the opinion of those who have been sufferers by it."

CAUSES. The renote or inducing are, too frequent over-loading the flomach---living upon leguminous and flatulent diet ---fedentary life---too violent evacuations, particularly of blood ---taking too frequently flrong purging medicines; dyfentery; mifearriages; intermittents; and fpafmodic affections of the flomach and bowels. The proximate or immediate have been specified above.

CURE. The indications are, to invigorate the tone of the stomach, and, where wanting, to increase the heat—the mode of doing which have, in a great measure, been set down when treating of pain of the stomach from indigestion, (352, &c.) and the hypochondriac disease, (512 &c.) to which we shall only beg leave to add, that cold liquids should be drank in preference to those which are warm, without asual warmth is necessary on account of the too great coldness of the stomach, and then, instead of tea and costs, infusion of rose leaves, sage, rosemary, or mint, may be used—and the preference should be given to the cold bath.

If meat cannot be contained on the flomach, as will fometimes be the cafe, cupping-gluffes may be applied about two inches below the flomach, firmulating cataplatms, or plaifters, applied at the pit of the flomach—generous, rough wine should be drank cold.

The mode of living should be carefully attended to, else all means will prove inessection—all oily substances, butter, therefore, fat meats, and meat pies, all unformented farinaceous food, mait liquors, particularly ale and porter, watery and vapid fruits, and raw vegetables, should be avoided—chewing tobacco, or any thing which promotes too much the discharge of faliva—frequent inebriation are extremely permissions, as also excels of venery, indolence, mental uneafiness, or too close application to intense shudy or business—ner should any excels be committed in eating, though the food should be of the easily digestible kind,

kind, of which to the animal class patients should chiefly adhere — cold, moist air, without exercise, is detramental; but cold air with it is beneficial—food should be often taken, and in small quantities; but if patients will not adhere to this rule, they should be confined to one kind for several days; and if vegetables must be indulged in, those which are the most tender, and slewed in their own juices, are the most proper.

If we now consider the effects produced in the habit by this complaint, we shall see that a vast variety of chronic diseases owe to it their origin, and, therefore, on its very first appearance it should be carefully attended to; for, if it is fast need to continue long, it is very rarely radically cured—and, indeed, I am persuaded that a great number of those complaints which assect children born of healthful parents, in their infamilie state, are produced from the same source, occasioned too often by the indulgence of over-sond mothers, or the ignorance or indolence of nurses, all which I think may be prevented by adhering to the rules laid down when treating of nursing. With regard, to their cure, similar modes must be pursued as we have laid, down in the disease just treated, appropriating the remedies to the circumstances of the case, and the delicacy of the frames with which we have to deal.

§ 9. RICKETS—RACHITIS.

This English name seems to be a corruption of the word RACHITIS, probably from a supposition that this complaint derived its origin from some affection of the spine, as the Greek word rasis, from whence rachitis is derived, means spine.

Most physicians agree that it very seldom, or never, attacks before the niuth month after birth, and seldom comes on after

two, fome fay fix, years.

DESCRIPTION. In the beginning, the proportion of many parts of the body is irregular—the kin bode, the belly thin, and as if turgid with wind—the mifcolar fieth wafter away, but the hands, wrifts, arms, knees, and teer grow large—the bones afford but weak fupport to the berly, and are often accompanied with crookeduels of the spine, from whence all their bodily actions and mode of moving on the ground are weak, which often terminares in weakness, unwilling note, and diffike of motio—these children fit slaggishly in the arms of their nurses, and feel heavy—at that time the asteries running up the neck appear full—the head is large, and note from one tide to the other, owing to the incapability of the reck successful actions are acute bey and from the flaccidity of that, part their dispositions are acute bey and

their age, but the break is narrow, and, as it were, comprehed from its tides with the flernum acuminated, and the extremities

of the ribs knotty.

As the malady increases, a flow fever comes on, with a cough, difficulty of breathing, and other symptoms, which, for the most part, continue till death closes the scene-but this is not always the ente--- a number of thefe fymptoms we have had inflances of continuing for a long feries of time, fill afterwards the discase ceases to advance, and health is restored, except fome differtious of the limbs may remain. We should have observed, that the opening at the top of the head, called fontanelle, and the parts where the bones join, named futures keep longer open, and in a greater degree, then others in an healthful flate; and the forehead is apt to protuberate in an uncommon marner ... the children get their treth flower, and much later than usual, and those which appear foon become black, grow loofe, and often fall out-the deine for food, and the appetite itfelf, is often quick and good; but there is frequently a loofenets, or a throng propentity to it-and though iometimes the disposition is acute, we have faid, now and then the faculties of the mind are impaired, and duliness and flupidity are prevalent.

These symptoms do not all of them prevail in every patient, but more or less of them according to the degrees of mildness or violetics of the disease; in some those which are more moderate, in others those which are more severe, make their ap-

pearance.

On opening those who have died of this complaint, in some the liver has been preternaturally large, scirchous, and aftering to the midrist—the mesentery below with induced clands, and obstructed with the facathread—in others, the long, united to the pleura, or back, and they either livid, or loaded with absorbes, called vomice—in some the pericardiam, the membrane surrounding the bear, forcharged with serum—bet in common the brain has been found slaced, replete in its ventricles with a thin watery sluid, and the shaids themselves through the machine in a dissolved state; the massive ar parts preternaturally foft and tender, and the bones capable of being cut with a knife, particularly near the places of their union.

CAUSES. The remote or inducing are, had nurfing--fuck-ling children too long---an acid produced from the milk with which the child is fed for the first nine months, or feeding it on unremented ferinaceous fubficances, and including too much in their une, particularly fuch almosts as policis too firm a texture, are too vifeid and four, as bread not well fermented, encefo,

cheefe-

cheefe-cakes, garden fruits--giving children four wine---living in bad air, or low marshy places---opiates too frequently and freely given —want of proper exercise—the habit weakened by preceding diseases—a diseased nurse---and external violence.

The proximate or immediate, a torpid flate of the circulatory fystem, and general flaccidity or relaxation of the solids preternaturally increased, by which the organs of digestion, assimilation, and nutrition, are dejective in their power, and bring on a thin state of sluids, and want of that matter in them which form the bones called offsice.

CHARACTERISTIC SIGNS. A large head, fwelling greatly on the fore part—tunnefied knees and wrifts, depressed ribs, distended belly, the rest of the body watting away.

CURE. The indications are, to increase the tone of the stomach, improve the digestive powers, and invigorate the sys-

tem.

In the first place, however, some of the symptoms are to be alleviated, as the stomach and bowels are apt to be foul, at the same time the latter distended with wind; they should be emptied by gentle vomits and mild purgatives—small doses of ipecacuanha, or of tartarized antimony, should be given for the first intent; and for the other, rhubarb and calomel, or Polychrest salt; rhubarb is the most eligible, as it is both bitter and astringent, therefore a good stimulant and tonic—the vomit may now and then be repeated, as it will, by the shocks it gives to the bowels and the other vicera of the belly, assist in taking off, or preventing the obstruction and enlargement that often occur in them.

The belly also may be rubbed with stimulant liniments, as volatile liniment, or No. 182. which has been strongly recommended-indeed, any of the joints which are swelled may be rubbed with this twice a day-and, perhaps, it will be more efficacious if it is applied after friction of the parts with a flannel before the fire-fcate oil has also for this purpose been much extolled, which is used by the inhabitants of the western parts of Scotland in the following manner:-first, the writts and ankles are rubbed well with oil in the evening, this immediately raifes febrile affections for feveral hours; when the fever labides, the fame parts are rubbed again the night following, and repeated as long as the rubbing excites fimilar effects--when, by rubbing these parts alone, not any febrile affections can be excited, the fame process is performed, and continued in the same manner on the knees and elbows-then afterwards down the back bones. and on the fides -- and when no fever is raifed by this operation, a flannel thirt dipped into the oil is put upon the patient's body,

2

by which more violent febrile affections are raifed than any of the former unctions, and is continued till the cure is completed,

which commonly happens in a short time.

The chief tonics employed in these cases are bark and seelof the former, from the naufcoulnels of the talle, it is fearce polfible to get down a sufficient quantity to render it effectual--however, it may be applied externally to the wrifts, by forming the extract into plaister, or quilting the powder in folt linen, (250.) applied in these modes I have been informed that it has proved effectual; but I should prefer its being brought into contact with the coats of the stomach immediately, as on that, it appears to me, depends its greatest esticacy.

Steel, as a preventive, has had its warm advocates, who, in order to be able to distinguish whether a child will become ricketty, point out the following fymptoms :-- a paleness and swelling of the countenance, and in that part of the cheeks, which should be naturally red, a yellow colour approaching to that of Sulphur; in which case, five grains of the filings of iron, and as much rhubarb, with ten grains of fugar, should be given every morning fasting and evening-but should this prove too purgative at first, one dose should only be given every day --- after 2 month's continuance, a keen appetite enfues, quick digestion, and a copious flow of urine-the fullness of the face, and yellowness of the complexion, by degrees are removed, and natural countenance and firmness of the body gradually restored --- and this practice, it is faid, has never failed of success in any one instance.

Five grains of ammoniacal iron may be given twice a day for a month, or longer, interposing occasionally aperient doses of rhubarb; but, in cases of feverish disposition, bark, with the vi-

triolic acid, is more eligible.

In cases of rickets, prepared kali, (177.) half a dram dissolved in eight ounces of bark decoction, four ounces taken every day cured a boy of feven years old, who has so much afflicted, that his inferior extremities had become stiff and immoveablethe body flaccid, he was much worn away by a loofeness and constant sweatings, and had five fistulous ulcers all discharging at the same time--in the course of one month from beginning to take the medicines he rose from his bed, and walked with some fupport-the bark was then changed to madder, and in less than four months he walked with a crutch, and by that time the ulcers were nearly healed -- the watery folutions of kali have in many ricketty people been fuccefsful.

Strong beer, porter, and wine have been recommended; but I should rather think them pernicious, the two former from

their

their viscidity, and the latter from its proneness to become a-

But the remedy most to be depended upon is cold bathing, or bathing in the fea, and is certainly the most powerful preventive. In Scotland it has long been the practice with people of all ranks to wash their children from the time of their birth with cold water; and, from the time that they are a month old, the fuperior class dip them entirely in cold water every morning --- and. where this practice has been purfued, Dr. Cullen afferts, that he never met with any instance of rickets-among the common people, though they wash their children with cold water, they do not to commonly practife immersion; and when amongst these he meets with cases of lickets, he prescribes cold bathing, which has accordingly checked the progress of the disease, and feems sometimes entirely to have cured it.

With respect to diet, strong objections have by some been started to milk, and where nurses are apt to give large quantities of a thin watery kind, it may certainly be detrimental, because it will weaken and relax the flomach, fill it and the bowels with four humours, and also the machine with too great a load of watery, ill-digested suids, and hence favour the coming on of the rickets; but where the milk is of proper confiltence, and does not appear to difagree, it may be perfilled in-chicken or thin veal broth, beef-tea with rice, or rice with cow's milk, properly thinned, may be occasionally given-and leavened bread is preferable to the unfermented farinaccous fubiliances, of which thin panada may be made, and now and then mixed with small portions of aromatic species.

Teffaceous powders, crabs eyes, &c. (191.) may be given by themselves, or mixed with the food, as they are tasteless; for of

these we have accounts of their utility.

Exercise in these cases is effentially necessary; but it should be of the gentler fort, and in an horizontal polition, left, by being kept upright, some distortion should take place-here cradles may be of use, or mattreffes laid upon fwings, and judiciously contrived to fecure the little infant from falling out, which should be fixed in the open air, in some shady place, protected from the too powerful force of the fun-nurles thould avoid carrying children in this difeafe always in one arm, (126.) nor should they hoilt, or tols them up much, for the breast may by these means be greatly injured, by the preflure of the thumb and finger on each fide the breast bone, from indentation or bending of the ribs inwards.

And with respect to fituation, as it has been observed, that people who live in damp moist places, where the air in common 3 U 2 abounds abounds too much with watery particles, are more subject to this disease than those who live in dry airy situations, particularly in Holland, all such should be particularly avoided—and by observing the rules here laid down, we may be almost always successful in preventing, and very often in curing this malady, if at the same time care is taken to preserve cleanliness, which is not the least uteful rule in our conduct.

\$ 10. HYDROPHOBIA;

fo called from udor, aqua, water, and phoheo, timeo, to fear, or DREAD OF WATER-this is by no means a proper appellationthe term of Dr. MEAD is more characteristic, DUSCATAPOTIA, from dys, difficulter, difficulty, and katapino, deglutio, to twallow, a DIFFICULTY OF SWALLOWING : for it has been obleived, that dogs, welves, and foxes, in which animals this malady arifes fpontaneously, have, though they have been mad, lapped water, eat, fwam over rivers, and run along the banks--however, as an incredible aversion to all liquids is in general the leading Tymptom, it has retained the former name-indeed, in men who have been bit by dogs or wolves affilded with this malady, the principal symptom is an aversion not only to water, but also air and light and they extremely rarely have any defire of drinking. It has been differently divided by different authors-the belt of which appear to be into that which arises from the bite of a mad animal, called therefore bydrophobia rabida, and that which comes on from some undiscoverable or imperceptible source, Riled Spontanea.

DESCRIPTION. It generally first discovers itself by the patient's becoming languid, dull, and resiless, and having frightful dreams—suddenly the pains, for the most part, shoot from the place where the skin was lacerated, all along up to the throat, where it causes a sensation of suscentian, and a total inability of swallowing liquids—though there is not always a dread of them attendant, yet there have been instances where the noise of salling water could not be borne, it created such

violent agitation, much less the fight.

These spasmodic assections of the throat, in the course of the disease, gradually diffine themselves over the whole mutcular system, similar to what happens in tetanus, (415.)--nor is it uncommon to observe, in throng constitutions, a priapism, or even a buttul appetite, exerting itself with some degree of violence—thould the wound have been healed, it begins to be assected with pain, swells, inslames, and dicharges a thin, sharp

fluid

thuid-this pain is confidered a primary invariable mark of a be-

ginning hydrophobia-

CAUSE of the first species, with which we oftenest meet, is the virus of the mad animal absorbed into the habit affecting immediately the aervous system—which virus may lurk inactive in the constitution for fourteen, twenty-one or forty days, within which time it begins to exert its influence; and it is observed to do that the sooner, in proportion as the bite is nearer to the glands, (24.) of the upper part of the throat and mouth, called salival.

CURE. The indications are, to endeavour to take off the fpalmodic symptoms, as in tetanus, (415.) and throw the offend-

ing poison out of the habit.

For which purpotes we apply and depend upon large dofes of opium given every three or four hours—musk also may be given liberally—plaisters of opium applied to the throat, and linaments of tincture of opium and camphor—sponges dipt in hot vinegar should be put to the mouth and nostrils, that the tances may be kept perpetually moistened by its steams,—nor should the use of the warm bath be omitted.

Towards the close of the cure, opium may be advantageously joined with cinnibar, musk, camphor, and asatætida—opiate glysters should frequently be thrown into the intestines; in fine, it should be applied to every place, and by every means, as expeditiously as possible, in hopes of allaving the violence of that highly increased degree of nervous incitability and muscular sensation—and, in order to procure an expulsion of the poisson out of the habit, mercurial cintment rubbed into the machine, that a fallivation may be raised as soon as possible, and this continued for two or three weeks.

Oth has lately been recommended in this complaint, thrown into the habit by means of external frictions all over the body, thrown into the intestines by way of glyster, and given by the mouth, when patients can be prevailed upon to conform to the mode—One case has lately occurred, where there was every reaton to conclude that the patient was preserved by this method—sea and cold bathing, with the pulvis antilyssus, (101.) have been greatly recommended in this disease, which have proved insufficient.

Indeed, cold bathing appears to me, if not a dangerous, a doubtful experiment, and depends upon conflictational circumflances folely for its utility, if it has any; for without perforation can be increased by its use, it certainly bids fair to confirm, rather than remove, the malady, by forcing the sluids too much upon the internal parts of the tystem, in which case,

should

should the habit not be strong enough to exert an expulsive force more than adequate to the impulsive power, the poison would be more riveted on the nervous system, and humourous and sanguinary congessions be added to the nervous affections—indeed, Celsus himself seems to have been aware of this, or some other inconvenience, arising from the use of the cold bath; for he advites, as soon as the patient comes out, to be plunged into warm oil, and drink of generous wine, evidently to solicit and increase the motion of the suids towards the external parts—in these cases, therefore, the warm bath and frictions appear to be the most proper auxiliaries to the other remedies.

This difeate is iometimes fucceeded by inflammatory fymp-

toms, in which cafe we may have recourse to bleeding.

After patients have gone through the proper course of the remedies herein advised, sometiment to remove the cause, then cold or sea bathing, adapted to the powers of the constitution, with the use of tonies and furnishments, may doubtless have its use, in order to give strength and vigour to the system, necessa-

tily debilitated by evacuants and fedatives.

The tecond species arises without any contagion being communicated, in some severs—from some preceding diseases—from the accession of an epilepsy—from the bite of an epileptic patient—by the bite from people in violent sits of rage, &c. according to the accounts of different authors—indeed an inferior degree of it will be observable in some hysteric cases, where, from the difficulty of swallowing, patients are extremely searful of taking liquids, nay, they cannot sometimes be prevailed upon to make the attempt.

In all which cases musk and opium appear to be the remedies

most rational, and productive of the greatest esticacy.

When it arises from the bite of a mad animal, the preventive method laid down, (102.) should be strictly observed, which appears to be the best calculated to obviate the most dangerous, and too often fatal effects of this destructive malady—and with CHARACTERISTIC SIGNS of which it may be useful to close the account; these are, a very high degree of nervous incitability, or super-sensation, attended with a loathing, or dread of any liquid, from the difficulty of swallowing, creating a painful spatmodic association of the throat, for the most part occasioned by the bite of a mad animal, and sometimes, though less frequently, from other accidental or inherent causes.

FORMS OF MEDICINE.

from page 4/3

No. 140. CINNABAR ELECTUARY.

Take Bark.

Valerian in powder,

Cinnabar of Antimony,

Jan ounce,

Syrup of Saffron, fufficient to form an electuary.

Dose. Two drams.

141. AMMONIACAL MIXTURE.

Take of Milk of Ammoniacum, 3 ounces.

Pennyroyal water, Antimonial Wine.

Oxymel of Squills,

drops. $\frac{1}{2}$ an ounce.

6 ounces-

Compound Spirit of Lavender, 3 drams. Mix .--- Dose. One ounce or one ounce and a half.

142. STIMULANT APERIENT PILLS.

Take Extract of Bitter apple

Aloes.

Flowers of Benzamin, Salt of Amber,

Myrrh, Caftor,

Calomel prepared,

Camphor,

Salt of Hartshorn, Balfam of Peru, sufficient to form Vills.

of each 20 grains:

of each 30 grains-

of each to grains

Dose. One dram.

143. AMMONIACAL MIXTURE.

Take Acetated Ammonia, Peppermint Water,

2 ounces. , 5 ounces-

In which dissolve.

Gum Ammoniacum,

1 dram 6 drams

then add Simple Oxymel Mix.

No. 144. STIMULATING TONIC MIXTURE.

Take Decoction of Bark,

Camphorated Tineture of Opium, \frac{1}{2} an ounce, Tineture of Spanish Flies, I dram.

1 j ounce.

Mix

No. 145.

No. 145. FOETID ATTENUANT MIXTURE.

Take Gum ammoniac, of each 1 drain Alafotida, Pennyroyal Water, 7 ounces. Syrup of Garlic, I an ounce.

Mix .-- Dose. Two or three spoonfuls.

146. PURGING MIXTURE.

Take Infulion of Senna, 6 ounces. Tincture of Aloes, 6 drams. of Jalap, 3 drams. Aromatic Tincture, 1 drams Dose. One ounce and a half-

147. Cooling purging Draught.

Take Warm Water, 1 I-2 ounce. Acetated Kali. I I-2 dram. Honey, 2 drams.

Mix .--- Given two or three times a day.

OF---148.

Take Common Mint Water, 1 1-2 ounce 3 to 4 drams. Tartarized Kali, Syrup of Roses, I-2 an ounce. Compound Spirit of Lavender, 1 dram. Mix .-- To be given in the morning.

149. DANDELION DRAUGHT.

Take of the Leaves, Stalks, and Roots of Dandelion, well washed and > I handful. bruised.

Raisins, I+2 an ounce. Let these be boiled in one pint to half a pint of water, let it stand till cold, then strain off the clear liquor, in two ounces of which dissolve Acetated Kali, 1-2 a dram.

and add Tincture of Senna, 1-2 an ounce or 6 drams

Compound Spirit of Lavender. 1 drams.

Mix.

No. 150. SAPONACEOUS PILLS.

Take Venice Soap, Rhubarb, 1 dram.

Syrup of Saffron, fufficient to form thirty-fix-Pills. Dose. Four

151. SEROUS PURGATIVE POWDER.

Take

```
Take jalep in powder,
                                     from 20 to 30 grains.
     Purified Natre,
  Take Gamboge,
                                      from 12 to 20 grains.
      Crystals of Tartar,
                                      I-2 a dram.
Mix.--
               153. DIURETIC ELECTUARY.
  Take of the Rust of Iron prepared, from 2 drams to 1-2
         Powdered Squills,
                                     I dram.
                                     I I-2 drams.
         Aromatic Powder,
         Conferve of Roman Wormwood, I 1-2 ounce.
         Syrup of Garlie, follicient to form an Electuary.
Doss. Quantity of a Nutmeg twice or thrice a day, with the
  following Draught:
                      DIURETIC DRAUGHT.
                154.
  Take of Diuret'e Salt,
                               from 1-2 to 1 1-2 dram.
        Distilled Water.
                                     I 1-2 ounce.
         Horleradish Water,
                                   2 drams.
Mix .---
              155. DEOBSTRUENT PILLS.
  Take Extract of Black Hellebore,
                                    l of each o diams.
      Myrrn Difforced,
      Powder of the Holy Thiftle, I ro fcruples.
Mix thefe well together, and let the mal be exposed to the dry
  air, until it is pr borm into this, at a nurla half
  into a pill. The end was be given to the number of
  twenty or thirty . . . . di ming their into three equal
  portions, one portion to be given every hour-
            156. MEDICATED WINE OR BEER.
  Take of Gentian.
                                         of each 4 ounces.
        Lemon Peel,
         Mint,
        Juniper Berries,
        Cinnamon,
         Rust of Iron,
                                      1 ounce.
Infuse these in a Gallon of Wine, or Ale, for fou icen days.
      Of the Ale half a bint, or the wine three or four o mees,
         157. STIMULATING TONIC ELECTUARY.
  Take of the Root of Wake Bobin, Belh
         gathered, and well bruifed,
                                       of each 1-2 an ounce.
       Gum Arabic in powder,
                                      5 or 6 drams.
       Bark,
                                                     Syrup
```

Syrup of Saffron, fufficient to form an Electuary.

Dose. The quantity of a Nutmeg --- or the ingredients may be formed into powder or pills, and taken in that manner, properly proportioning the dose of Wake Robin in powder of the dried root, that is, from five to ten grains at a dole.

158. CAMPHORATED BOLUS.

Take of Mithridate, or

Venice Treacle, Camphor,

20 grains. 8 grains.

Syrup of Saffron, sufficient to form a bolus-159. DECOCTION OF WATER-DOCK.

Take of the Bark of the Root of Wa- } 1-2 a pound.

ter-Dock, Boil this in fix pints of river or rain water to four, in which diffolve two drams of Crystals of Tartar, and let half a pint be taken three or four times a day.

160. KALI DRAUGHT.

Take of Kali prepared,

15 grains.

Distilled Water.

I I-2 ounce,

Syrup of Sugar,

I dram.

Let this be drank, and immediately afterwards let dilute vitriolic Acid, as much as will neutralize the Alkali, be taken in half an ounce of distilled Water.

161. WORT.

Take of Malt fresh ground, 1 pound.

Infule it in three pints of boiling Water, let it fland for four hours and then pour off the clear liquor for use.

DosE. From two to four pints in a day.

162. HEMLOCK PLAISTER WITH AMMONIACUM. Take of the Expressed Juice of Hemlock, 4 ounces.

Gum Ammoniacum, 8 ounces.

Vinegar of Squills, sufficient to dissolve the Gums --Add the Juice to this folution, strain the mixture, and boil it to the confishence of a plaister.

163. TINCTURE OF BARK WITH LIME WATER. Take of Lime Water hot, , I I-2 pint.

which infuse

Peruvian Bark in powder, 1 1-2 ounce. Let it fland for eight or ten days, then pour off the clear liquor-Dose. From two to four spoonfuls twice a day.

164. SEDATIVE INJECTION.

Take Rose Water. ...

6 ounces.

Tincture of Opium,

2 or 3 drams.

Mix .--

165. RESTRINGENT INJECTINO.

Take

Take Infusion of Rose Leaves, without } 5 ounces. the Vitriolic Acid,

White Vitrol,

Accetated Cerufs,

\$ 5 oun

6 grains.

8 grains. Mix. 166. CALOMEL INJECTION. Take Infusion of Roses, as above, or } 4 ounces. Decoction of Bark, Calomel prepared, Mix. 167. MERCURIAL OINTMENT. Take Hog's Lard, . Take Hog's Lard,
Quickfilver,

Rub them together in a marble mortar, till no globule of the Quickfilver appears. 168. CORROSIVE SUBLIMATE SOLUTION. Take of Water, of Water,
Brandy, or
Any kind of Ardent Spirit,
Corrofive Sublimate,

5 ounces. DosE. Half an ounce. 169. CORROSIVE SUBLIMATE PILLS. Take Corrofive Sublimate, Dissolve them in Distilled Water, 6 drams. To this liquor add Crumbs of white Bread, 2 1-2 drams. and make 120 Pills. Dos E. Two, night and morning, which may be gradually increafed to four, if the stomach will bear them. 170. MERCURIAL GUMMOUS SOLUTION. Take purified Quickfilver, I dram, . 3 drams. Gum Arabic, Syrup of Rhubarb, a fufficient quantity. These are to be rubbed together in a glass, or marble mortar, gradually adding a little Syrup at a time, until the whole of the Quickfilver runs into a mucus; then, in the same gradual mane ner, add Rose Water,
Dose. One ounce night and morning. 12 ounces. 171. MERCURIAL GUMMOUS PILL. Take the Mercurial Mucus above described, and add to it Crumbs of Bread, I-2 an ounce. Make these into pills of fix grains each.

DOSE. Five night and morning)

3 X 2

No 172

No. 172. MERCURIAL SYRUP.

Take Mercurial Mucus above deteribed, formed with Syrup of Rofes instead of that or Rhubarb, and gradually add to it of

the same Syrup four ounces and a half.

Dose. A tea-spoonful morning and evening; but let the spoon be of Wood, Mother of Pearl, or China—and the dote may be gradually increased.

173, MEZEREON DECOCTION.

Take of the Bark of the Mezerconroot, fresh gathered, } ; ounce

Distilled Water, 12 pints.

Boil these together to eight pints and, towards the close, add Liquorice Root bruifed, 1 ounce.

Dose. Half a pint twice a day.

174. SULPHUR OINTMENT.

Take Flower of Sulphur, 1 ounce.
Fixed Ammonia Salt, 1 dram.
Hog's Lard, 2 ounces.

Mix.—A fourth of this to be well rubbed only on a fourth part of the body every evening.

175. MERCURIAL LOTION.

Take of Muriated Quickfilver,

Rock Alum,

Purified Nitre,

Lime Water,

1 dram.

2 drams.

1-2 an ounce.

Mix .-

176. MERCURIAL OINTMENT.

Take Muriated Quickfilver,
White precipitated Quickfilver,
Simple Ointment,
Oil of Lavender,

10 grains.
1 dram.
1 1-2 ounce.
2 few drops.

Mix,-

177. MERCURIAL GIRDLE.

Take of purified Quickfilver, 2 drams.

Let these be well shook with

Lemon Juice,

till all the globules thell cease to appear, then pour off the kiquor, and to the killed Quickfilver, (so called) let there be added half the Yolk of an Egg, and one foruple of Gum Tragacantle
very finely powdered. This composition must be spread upon
a stannel roller, about the breadth of three singers, and suffici-

ently

ently long to form a girdle to encircle the waift, which must be there worn.

178. DECOCTION OF THE INTERIOR BARK OF THE ELM TREE.

Take the interior Bark of the Elm Tree, 4 ounces. Distilled Water,

Let these be boiled to two pints, and then strained.

Dose. Half a pint twice a day.

170. BARK AMD SASSAFRAS ELECTUARY.

Take Peruvian Bark, very finely pow-] dered.

Powder of Sassafras Bark, 1-2 an ounce. Syrup of Sugar, fufficient to form an Electuary.

Quantity of a large Nutmeg twice a day.

180. STIMULANT LOTION.

Take British Spirits, 8 ounces. Ley of Tartar, 1 ounce. Spirit of Sal Ammoniac, 2 drams.

181. VOLATILE FOETID MIXTURE.

Take Asafoetida. 1 dram. dissolve these in the

Liquor of Hartshorn.

2 drams. Pennyroyal Water, 2 ounces. Syrup of Saffron, 2 drams.

Mix. Dose. One or two tea-spoonfuls occasionally.

182. LINIMENT AGAINST RICKETS.

Take Palm Oil,

Balsam of Peru. Spirit of Sal Ammoniac, Oil of Nutmeg expressed,

----Cloves, --- Amber,

of each 20 drops.

Mix.-

E

This not only is an Index of reference, but of explanation; as there are in the Work unavoidably some technical Terms, not very readily intelligible to common Readers. Where, therefore, the Words are not explained in the Body of the Work, they are in this Place. And Words marked with an Afterisk are referred to the Page where fuch may be found, with the Sense given of them. Where the letter F. is placed before the Figures, they refer to the article in Some of the Forms of Medicine, P. 229. 403. 527.

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A Bdomen, lower belly. ' Abdominial, belonging to the abdomen.

Ablutions, cleanfing.

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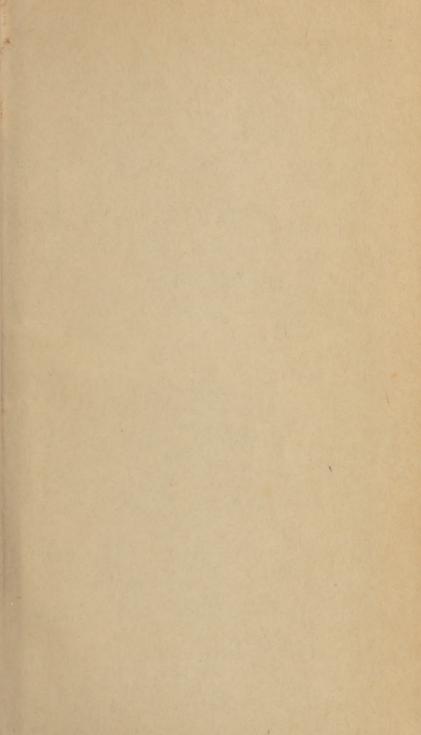
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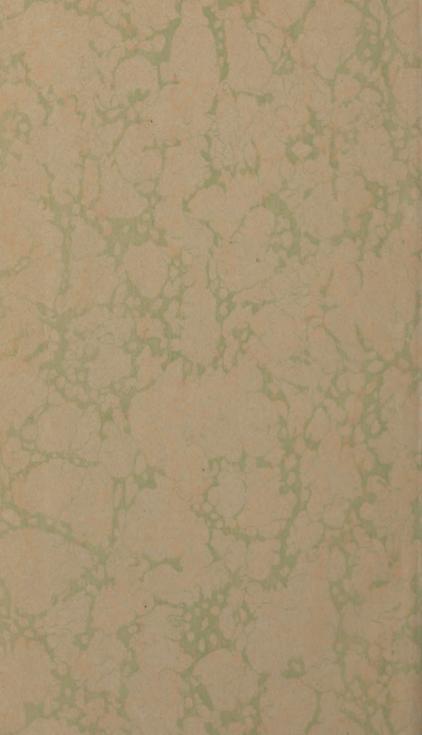
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